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PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE



ANNOUNCEMENT

1971 - 1972



Present College Building of Philadelphia College of Osteopathic Medicine



New College Building

Now under construction.

Philadelphia College of Osteopathic Medicine



Announcement of Courses

1971 - 1972

SPRUCE STREET AT 48TH
PHILADELPHIA, PA. 19139
215 SH 8-1000



The Purpose of Philadelphia College Of Osteopathic Medicine

is to establish, conduct and maintain a college and related schools, clinics, laboratories and hospitals which shall formulate and impart instruction and training in the art, science and practice of medicine, surgery, obstetrics and the healing art in accordance with the osteopathic concept of etiology, diagnosis, prevention and treatment of disease.

Philadelphia College of Osteopathic Medicine is approved by the American Osteopathic Association upon recommendation of its Bureau of Professional Education, which is recognized by the National Commission on Accrediting as the accrediting agency for colleges educating osteopathic physicians and surgeons. The Bureau of Professional Education and the American Association of Colleges of Osteopathic Medicine are constituent members of the American Council on Education. The College is also accredited by the Department of Public Instruction, Commonwealth of Pennsylvania.



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Calendar for 1971-1972

1971

May 31, Mon.	7:00 A.M.—Fourth Year begins
Sept. 9, Thurs.	Registration: Fall Term— (First Tuition Payment Due) 1st Year Class—10:00 A.M. to 11:00 A.M. 2nd Year Class—1:00 P.M. to 2:00 P.M.
Sept. 10, Fri.	Registration: Fall Term— (First Tuition Payment Due) 3rd Year Class—10:00 A.M. to 11:00 A.M. 4th Year Class—1:00 P.M. to 2:00 P.M. Reception for First Year Class—8:00 P.M.— Auditorium

FIRST TERM — 1971

Sept. 13, Mon.	Fall Term begins at 8:00 A.M.
	Convocation—11:00 A.M.—Auditorium
Nov. 20, Sat.	Fall Term ends at the close of classes
Nov. 22, to Dec. 4, inc.*	Fall Term Final Examinations *(Thanksgiving Recess—Nov. 25 thru Nov. 28, inc.)

SECOND TERM — 1971

Dec. 6, Mon.	Winter Term begins at 8:00 A.M. (Second Tuition Payment Due)
Dec. 18, Sat.	Christmas Recess begins at the close of classes

1972

Jan. 3, Mon.	Christmas Recess ends at 8:00 A.M.
Jan. 22, Sat.	Founders Day Convocation—10:30 A.M.— Auditorium
Feb. 26, Sat.	Winter Term ends at the close of classes
Feb. 28, to Mar. 11, inc.	Winter Term Final Examinations

THIRD TERM — 1972

Mar. 13, Mon.	Spring Term begins at 8:00 A.M. (Third Tuition Payment Due)
Mar. 31, to April 3, inc.	Easter Recess
May 20, Sat.	Spring Term ends at the close of classes
May 22, to June 2, inc.*	Spring Term Final Examinations *(Mon., May 29—Memorial Day Holiday)
May 30, Tues.	7:00 A.M.—Fourth Year begins
June 4, Sun.	Commencement—3:00 P.M.
Sept. 7 & 8	Fall Term Registration
Sept. 11, Mon.	Fall Term begins at 8:00 A.M.

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Philadelphia College of Osteopathic Medicine

1971-1972

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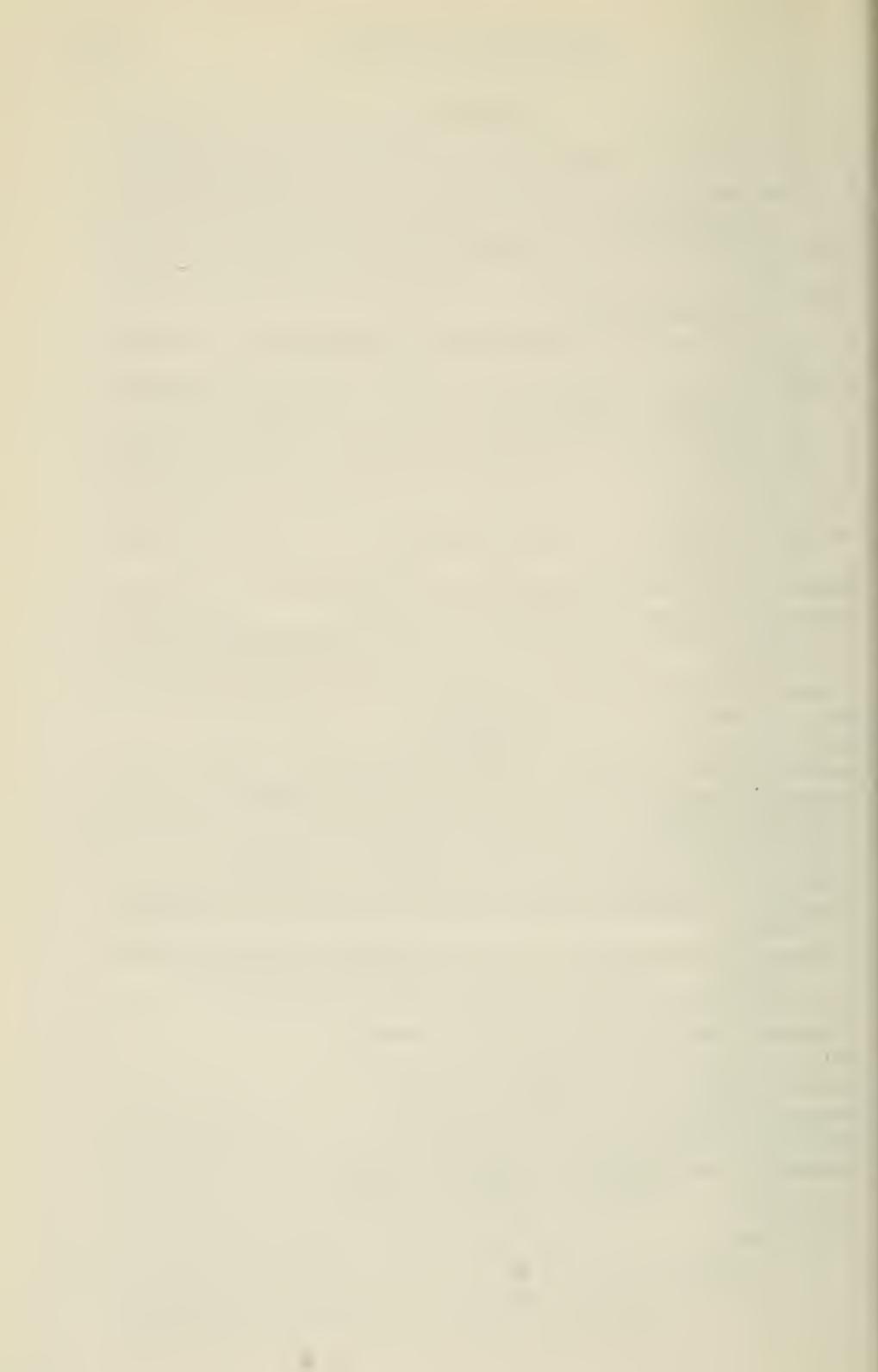
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**The College
History
Facilities
Requirements for Admission**

History

PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE, founded in 1898, dates its current corporate functioning from a merger of two Pennsylvania non-profit corporations: Osteopathic Hospital of Philadelphia and Osteopathic Foundation of Philadelphia, and the securing of the right to the name and the authority to operate a college of healing arts.

Philadelphia College of Osteopathy, Inc., the New Jersey corporation which had conducted the College under a certificate from the Commonwealth of Pennsylvania, gave consent through its Board of Trustees to these legal steps as passed upon by the Pennsylvania Department of Education and the Court. The academic year 1953-54 marked the start of a new chapter in the institution's history.

The annual "Founder's Day" observance commemorates the establishment of the College in 1898 by Dr. O. J. Snyder and Dr. Mason Pressley, chartered as a professional school dedicated to "improved methods of the healing art in accordance with osteopathic theories of etiology, diagnosis, the prevention and treatment of diseases in general, and the practice of surgery, obstetrics and the specialties" and to "osteopathic research and the dissemination of scientific knowledge."

It was incorporated as "The Philadelphia College and Infirmary of Osteopathy," January 24, 1899, under the laws of the State of New Jersey. The first class was graduated in 1900. In 1921 the name of "Philadelphia College of Osteopathy, Inc." was authorized.

The first college was opened in the Stephen Girard Building and shortly afterward was transferred to larger quarters in the Witherspoon Building. In 1903 it was moved to the northeast corner of 33rd and Arch Streets. From 1908 to 1911 it was situated at 1715 North Broad Street, and from 1912 to 1916 at 832 Pine Street. In 1916 the Reyburn Mansion at the southeast corner of 19th and Spring Garden Streets was purchased for the College. A fifty-bed hospital building was erected adjoining the College on 19th Street. Subsequently two properties adjacent to the College on Spring Garden Street were purchased to serve as annexes to the College and Hospital. The Board of Directors of the Osteopathic Hospital secured the site at 48th and Spruce Streets in 1928, where space in a completely new building was opened for classes on November 16, 1929.

The Osteopathic Hospital of Philadelphia was chartered under the laws of Pennsylvania, May 10, 1911, "to establish, support

and conduct a general hospital for the treatment of sick and injured persons." The Hospital was the outgrowth of a dispensary located at 1617 Fairmount Avenue. In 1911 the Osteopathic Hospital of Philadelphia was established at 410 South 9th Street. When the College moved to 19th and Spring Garden Streets, the Hospital was temporarily quartered at 1725 Spring Garden Street, where it remained until completion of the hospital building on the 19th Street site in 1918.

In January, 1929, the Board of Directors sponsored a public campaign for funds, setting the goal at \$1,030,000, to meet the needs for a new college and hospital building. The success of this drive, in which \$1,044,000 was subscribed, was without parallel in osteopathic achievement involving a building program.

The site at the northeast corner of 48th and Spruce Streets was purchased in 1928. Upon this tract, with a frontage of 281 feet on Spruce Street and 250 feet on 48th Street, a building for the college, hospital and administration was erected in 1929 at a cost of one million dollars.

In 1951 the Hospital, with funds supplied largely by the hospital staff, purchased the building and grounds of the long-established Women's Homeopathic Hospital of Philadelphia. This facility occupied a complete city block. The hospital was operated until 1968. In 1971 the property was sold to the City of Philadelphia. Philadelphia College of Osteopathic Medicine will continue to serve patients in its out-patient service there.

In 1957 Philadelphia College of Osteopathic Medicine purchased the 16 acre Moss estate on City Avenue for development as a new campus. The Moss mansion serves as an administrative center and as the location for the didactic portion of the Postdoctoral Program and of the School of Practical Nursing. The first new building on the campus is the Frederic H. Barth Pavilion, the first 259 (including bassinets) bed unit of a 600 bed hospital. This building was completed and opened for service in 1968. Under construction is a college building planned to house 800 predoctoral students and 200 postdoctoral students. Included in this building will be lecture auditoria, library, laboratories and space for research. A 250 unit apartment house for senior citizens will also be built on this campus. Also to be constructed on the campus will be two parking garages to house 600 automobiles.

THE COLLEGE EDUCATIONAL FACILITIES

The college-hospital building at 48th and Spruce Streets is designed in collegiate Gothic. The structure, comprising four

floors and a basement, is built of colonial red brick and limestone trim and variegated slate roof. The main entrance on Spruce Street, flanked by towers, opens into a lobby connecting the college and hospital units. Immediately off the lobby are waiting rooms and general administrative offices. In the west ground floor is the Out-Patient Department, equipped for clinical instruction in general and orthopedic surgery, obstetrics and gynecology, pediatrics, proctology, ophthalmology and otolaryngology, urology, dermatology, diseases of the chest, physical therapy, neurology, and other special service areas. Thirty-two "offices," fitted with osteopathic treating tables and other necessary equipment, are used by the clinic supervisors in the instruction of students, who thus meet, examine and treat clinic patients in a professional and practical way under the supervision of experienced graduate physician teachers.

The same system, with student "offices" and specialty clinics, occupies ground floor space in the Main Building at North Center Hospital; and the clinical training program, under the Director of Clinics, is maintained by a separate supervisory staff for North Center. Located in a heavily populated residential section, North Center Clinic is notable for its rich variety of diagnostic experience.

The Hospital of Philadelphia College of Osteopathic Medicine in West Philadelphia accommodates 66 patients with private rooms, semi-private rooms, operating rooms, workrooms, x-ray quarters, kitchens, dining rooms, etc. The kitchen, dining rooms and serving rooms are located in the east ground floor. In the central section of this floor is located the x-ray department containing complete diagnostic and therapeutic units. The first floor is a general service floor, with receiving and emergency rooms and semi-private rooms. Surgery occupies the third floor: an operating amphitheater with seating capacity of approximately 200, a private operating room, anesthetizing room, and the orthopedic department. Work rooms and a sterilizing room occupy the central section. Semi-private rooms make up the remainder. The amphitheater of the third floor operating room occupies the central section of the fourth floor. Adjoining are laboratories of pathology and bacteriology, the mortuary and autopsy room.

The Frederic H. Barth Pavilion of the Hospitals of Philadelphia College of Osteopathic Medicine was constructed as a teaching and research hospital for the College by the General State Authority of the Commonwealth of Pennsylvania. Excavation work began on March 15, 1965. The building was dedicated on June 10, 1967 and opened in March of 1968.

This Hospital is a major unit in the Medical Center being developed by Philadelphia College of Osteopathic Medicine.

The Frederic H. Barth Pavilion is named in honor of Dr. Frederic H. Barth who has served the College as a member of the Board of Directors and as the chief executive officer of the Board since 1949. Under Dr. Barth's leadership the College and its Hospitals have moved forward firmly and rapidly in education, in-patient care, out-patient care, and in service to the people of Philadelphia and of the Commonwealth of Pennsylvania.

The Frederic H. Barth Pavilion provides 228 beds for patient care. The building is so constructed and areas for ancillary services so designed that the capacity of the Hospital can be expanded to 600 beds by construction of additional floors. The present building contains 190,000 square feet of floor space. The wings of the first four floors—two basements and floors one and two—are each 320 feet long. The building is entirely air-conditioned and provides in its design and equipment a facility which meets the criteria of a modern hospital in a teaching and research center.

The clinics of Philadelphia College of Osteopathic Medicine are distinctive in their scope, organization and patronage. Situated in a busy medical metropolis, the osteopathic out-patient service has flourished under constantly increasing demands.

A staff of Professional Teaching Supervisors on daily service at the hospitals make possible intimate and personal contact with the individual students. In the out-patient departments the great number of clinic patients further assures contact with a wide range of disease conditions. The out-patient department prescribes systematic and coordinated instruction in all phases of osteopathic medicine.

The schedule for the fourth year class is so arranged that the students are daily occupied in the practical work in the college out-patient department and on the floors and in the laboratories and operating rooms of the hospitals. An out-patient maternity clinic service furnishes an abundance of opportunities for experience in prenatal and general obstetrical care. Third-year students also are scheduled for hospital and out-patient service experience.

The combination of the osteopathic college with two hospital units is organized to give the student the optimum clinical training. All departments of college teaching are correlated, with each clinical department extending throughout college, hospital and out-patient services as one unit under the direction of a single head.

LAPORTE MEDICAL CENTER

In 1970 Philadelphia College of Osteopathic Medicine opened a Rural Health, Outreach and Training Center in new quarters in the Makoma Inn in the village of Laporte, Sullivan County, Pennsylvania. Sullivan County did not have enough physicians to supply service to the county's 6,000 inhabitants. In the interest of helping to increase the health care service to the people of the county, P.C.O.M. opened its clinic and appointed two osteopathic physicians to take care of patient service and to supervise student physicians from the college who are assigned to the clinic on a rotation basis. A major objective of this clinic is to provide the college with an opportunity to provide for students' instruction and experience in rural medical practice with the purpose of interesting a number of them in becoming physicians in rural areas.

The facility provides physicians' offices, examining rooms, laboratory, waiting room, and other auxiliary rooms. Hotel facilities and services are available should they be needed. Plans are being made for the construction of a hospital and a nursing home adjacent to the Center.

HARVEY SCHOOL OF ANATOMY

The Harvey School of Anatomy is a regularly chartered institution for the study of practical anatomy, and is housed in the 48th Street building and serves as the Department of Anatomy for the College. A collection of special dissections, specimens and models is on display and arranged for study. The facilities afford excellent opportunities for detailed investigation of normal and abnormal structures. The dissecting room is equipped with tables and cabinets of special demonstration material.

THE MUSEUMS

The museum of the College contains specimens and models in mahogany cases in the main auditorium. The collection includes both normal and pathological specimens, serial sections, dissections and mounted preparations illustrating the major diseases. Among the most notable are the collection of bone specimens, human embryos, Spalteholz preparations, development of the cardio-vascular system in plaster.

The anatomy laboratory, the work of the late, renowned Angus Gordon Cathie, D.O., houses a museum which is recognized as one of the best of its kind in the world maintained by any school of the healing arts.

The radiological museum, established and supervised by Paul Turner Lloyd, D.O., is in the auditorium of the college building at 48th Street and therein are displayed a number of pieces of equipment to demonstrate the historical development of radiology.

O. J. SNYDER MEMORIAL LIBRARY

The general library of the College adjacent to the auditorium contains volumes recommended by the departments for collateral reading, including the standard osteopathic and other medical textbooks and periodicals, current journals and bound volumes. Students have free access to the library. Libraries are provided in laboratory, research and clinical departments. Library services may be arranged for students in the many fine medical libraries in Philadelphia.

A bookstore is operated for the convenience of the students with the proceeds from the sale of books applied to the library fund for the purchase of new volumes and journals. The Librarian is custodian of the bookstore located across the corridor from the library.

COURSE OF STUDY

It is the aim of the college to prepare the student for the general practice of osteopathic medicine. The first two years of the four-year program of instruction are concerned principally with the basic sciences: anatomy, histology, embryology, chemistry, pathology, physiology, and bacteriology and with introductory clinical studies in osteopathic manipulation, medicine, surgery, neurology and psychiatry. During the second year, work is begun in physical diagnosis, osteopathic medicine, and radiology, as a basis for the more advanced subjects of surgery, obstetrics, and the various divisions of general osteopathic practice which occupy most of the final term of the second year and all of the last two years. During the third and fourth years, much of the emphasis is on actual clinical training experience with assignments in the general and special outpatient clinics and in the hospitals. The program is arranged so that the students, although always under the direct supervision of a qualified physician, will become able to assume a continually greater share of responsibility for all phases of patient care.

Throughout the course the principles and practice of osteopathic manipulative technique are directed to their specific applications in each field. This teaching departmental work is coordinated with the basic sciences during the first year and progressively leads into the clinical phases of practical application as the training program progresses through the upper years.

GRADUATION AWARDS

Special merit is recognized at the time of graduation for those faculty and students who have qualified for the following awards traditionally presented at the commencement dinner.

THE CHRISTIAN R. AND MARY F. LINDBACK FOUNDATION AWARD FOR DISTINGUISHED TEACHING

This award by the Trustees of the Christian R. and Mary F. Lindback Foundation is given in recognition of distinguished teaching by members of the Faculty of Philadelphia College of Osteopathic Medicine.

THE CHRISTIAN R. AND MARY F. LINDBACK FOUNDATION SCHOLARSHIP AWARDS

These scholarships are awarded by the Trustees of the Christian R. and Mary F. Lindback Foundation to students who are residents of the States of Delaware, Maryland, Pennsylvania or New Jersey and who by their academic achievements, personal qualities and promise as osteopathic physicians are deemed worthy of this recognition.

THE DEAN'S AWARD

Awarded to that member of the graduating class who by his personal and professional conduct and by his contributions to student affairs and to the general program of Philadelphia College of Osteopathic Medicine has been deemed worthy of special citation as a recipient of the Dean's Award.

THE ALUMNI ASSOCIATION AWARD

Awarded by the Alumni Association of Philadelphia College of Osteopathic Medicine to that member of the graduating class who has been selected because of the high calibre of the performance of his professional duties in the hospitals and out-patient services.

THE PUBLIC HEALTH AWARD

Awarded by Joseph Py, D.O., to that member of the graduating class who has excelled in the subjects of Bacteriology and Preventive Medicine.

THE WILBUR P. LUTZ, D.O., MEMORIAL AWARD

Awarded upon recommendation of the Department of Osteopathic Medicine, to that member of the graduating class who has been selected as the most proficient in Physical Diagnosis.

THE OBSTETRICAL AWARD

Given by Lester Eisenberg, D.O., and awarded to that member of the graduating class upon recommendation of the Department of Obstetrics and Gynecology for exceptional achievement in the didactic and clinical program of the department.

THE FREDERIC H. BARTH AWARD

Given in honor of Dr. Barth by Dr. and Mrs. Samuel A. Blank, and awarded to that member of the graduating class who has made the greatest improvement in his studies during his four years as a student at Philadelphia College of Osteopathic Medicine.

THE SOPHIA FREITER BARTH AWARD

Awarded upon recommendation of the Department of Pediatrics to that member of the graduating class for exceptional achievement in the didactic and clinical program of the department.

THE CANCER AWARD

Awarded to that member of the graduating class selected for his interest in, and contributions to the field of Oncology.

THE HOMER MACKEY MEMORIAL AWARD

Awarded in memory of Homer Mackey by the Student Council of Philadelphia College of Osteopathic Medicine to that member of the graduating class who attained the highest scholastic average throughout his three years of didactic study.

THE ALICE SNYDER BARTH MEMORIAL AWARD

The Alice Snyder Barth Endowed Memorial Award is awarded to that member of the graduating class who has been selected on the basis of his excellence in the field of bronchopulmonary and upper respiratory diseases.

THE DOROTHY JEAN SIVITZ, D.O., MEMORIAL AWARD

Given by Philip M. Lessig, D.O., and Clarence E. Baldwin, D.O., is awarded to that member of the graduating class who has the highest academic achievement in Hematology.

THE JOHN H. EIMERBRINK, D.O., MEMORIAL AWARD

Awarded to that member of the graduating class who in the opinion of the members of the Department of Osteopathic Principles and Practice has shown exceptional ability in Osteopathic Therapeutics. Given by Mrs. Eimerbrink and several of Dr. Eimerbrink's intimate professional associates.

**THE BELLE B. AND ARTHUR M. FLACK MEMORIAL
AWARD**

Given by the children of Dean and Mrs. Flack, and awarded, upon recommendation of the Department of Internal Medicine, to that member of the graduating class who has been selected as most proficient in the practice of Internal Medicine.

THE HAROLD C. WADDEL, D.O., MEMORIAL AWARD

This award is made to that member of the graduating class, upon recommendation of the Staff of the Department of Obstetrics and Gynecology, for exceptional competence in Obstetrics and Gynecology.

THE HAROLD L. BRUNER, D.O., MEMORIAL AWARD

Given by the children of Harold L. Bruner, D.O., and awarded to that member of the graduating class who has demonstrated outstanding proficiency in the field of allergy.

THE KENNETH L. WHEELER, D.O., MEMORIAL AWARD

Awarded by the family of Kenneth L. Wheeler, D.O., to that member of the graduating class whose achievement in studies in Radiology has been of a high order and whose aptitude for a career in Radiology has been demonstrated by his work in that department.

Requirements for Admission

An applicant for admission to Philadelphia College of Osteopathic Medicine is reminded that as a candidate for the degree of Doctor of Osteopathy, and for membership in the Osteopathic Profession, he should be aware of the fact that the breadth of his education, the quality of his character, the nature of his personality, and his sense of dedication to service, have always been major factors in the success of a physician's life and work. Listed below are the minimal requirements for consideration for admission. The undergraduate student is encouraged to pursue advanced studies in biology and chemistry as his program permits. It should be emphasized, however, that the broad liberal aspects of undergraduate education should not be sacrificed unduly in order to pursue advanced programs in the sciences.

- (a) Four years of study of satisfactory quality in an accredited secondary school.
- (b) A minimum of three years of collegiate work of satisfactory quality in an accredited college or university with specified courses in biology, chemistry, physics and English.

The details of requirement (b) are as follows:

1. 75% of the total number of credits required for the baccalaureate degree at an accredited college of arts and sciences.
2. English: A minimum of 6 semester hours (one year) in composition and literature.
3. Biology: A minimum of 8 semester hours (one year) of which at least 4 should be in laboratory work. This requirement may be satisfied by a course of 8 semester hours in general biology or zoology, or by courses of 4 semester hours each in zoology and botany, but not by botany alone.
4. Inorganic Chemistry: A full course of at least 8 semester hours (one year) of which at least 2 should be in laboratory work.
5. Organic Chemistry: A full course of at least 6 semester hours (one year) and preferably 8 semester hours of which at least 2 should be in laboratory work.
6. Physics: A minimum of 8 semester hours (one year) of which at least 2 should be laboratory work.

- (c) Each applicant must submit his scores on the Medical College Admission Test. This test is administered by the Psychological Corporation. Information concerning this test may be obtained from the pre-professional adviser at

your college or directly from the Psychological Corporation, 304 East 45th Street, New York, New York 10017. This examination is given in the spring and fall. Applicants are urged to take the examination in the spring of the junior year and certainly not later than autumn of the senior year. If you have taken the test and did not have your score forwarded to our College, please write to the Medical College Admission Test, 1776 Massachusetts Avenue, N. W., Suite 302, Washington, D. C. 20036 and request that they do so. There is a charge of \$1 for this service. The code number for Philadelphia College of Osteopathic Medicine is 601.

- (d) Each student enrolled in the College must have in the college files certificates of preliminary education issued by the Pennsylvania Department of Education. Such certificates should not be applied for until the applicant is notified officially of his or her acceptance by the College. Further instructions regarding the securing of these certificates will be supplied by the Director of Admissions after acceptance.
- (e) ALL APPLICANTS PLEASE NOTE: For purposes of eventual licensure to practice, applicants for admission should study the detailed requirements of the laws governing pre-professional educational requirements in states in which they contemplate practicing. This should be done before making application. It is to be expressly understood, however, that all applicants seeking admission, regardless of the state requirements, must satisfy the entrance requirements of Philadelphia College of Osteopathic Medicine.

METHOD OF MAKING APPLICATION

Applications for a given academic year will be accepted until February 1st preceding the opening of the next academic year. Early application and fulfillment of application requirements are essential.

Upon receipt of the completed application and required credentials, those who are to be interviewed will be notified. Even though all applicants who are eventually accepted must be interviewed, a request to appear for an interview should not be construed by the applicant as evidence of final acceptance.

All inquiries about admission should be addressed to the Director of Admissions. The application form supplied by the Director of Admissions must be properly executed and submitted with an application fee of \$15.00. The fee is not refundable.

Philadelphia College of Osteopathic Medicine, following its practice of longstanding, welcomes qualified students, faculty and staff from all racial, religious, ethnic and socio-economic backgrounds.

TUITION AND FEES

Annual tuition is \$1,550. for those students determined by the College to be residents of the Commonwealth of Pennsylvania; and \$1,900. for all others. One-third of the tuition is due at registration in September, one-third on the first day of the Winter Term and one-third on the first day of the Spring Term of each academic year. The only exception to this schedule of payments is for the first year. Upon notification of acceptance by the Dean, an advance payment of \$100 is required to reserve the applicant's position in the class for which he is accepted. This advance payment will be deducted from the tuition payment due on Registration Day but is not refundable in case of withdrawal or the final refusal of admission.

An annual equipment usage fee of \$25 per student will be charged to students in the first, second and third year classes.

The Student Council is authorized to assess the students from time to time on a per capita basis to finance its operation. These fees do not come within the scope of Veterans Administration Regulations. The annual Student Council fee is \$12. There is a yearbook fee of \$10. Each student must pay these fees at the September registration.

Every candidate for the degree of Doctor of Osteopathy must pay a graduation fee of \$25, payable on the first day of the Spring Term of the Senior year.

Fees to be paid by students are subject to change at any time at the discretion of the Board of Directors. Fees are neither returnable nor transferable.

A student whose fees are unpaid, or whose physical examination has not been completed at registration time as scheduled, may be barred from classes until his registration is effected. The student will be held accountable for all absences incurred through the operation of this rule. A fine of \$10 will be levied against any student who fails to register and pay all fees at the scheduled time.

If a student withdraws from College because of illness or other physical disability within two months from the opening date of any semester, a pro rata return of the tuition fee may be authorized, provided the student files with the Dean a written notification of his withdrawal together with a physician's certificate. In no case will fees be refunded for dishonorable dismissal or for dismissal or withdrawal on account of poor scholarship.

LIVING EXPENSES

The College is located in a residential section of the city. Lodgings are obtainable at varying costs. Rooms without board are available for approximately \$10 a week and there is a wide choice of apartments. The College Office maintains a list of rooms and apartments.

MICROSCOPES

Each student entering Philadelphia College of Osteopathic Medicine is required, prior to the beginning of classes, to secure as the minimum standard equipment a microscope of standard type (single ocular) fitted with a 10X ocular and with 3 objectives (low power, high power and oil immersion).

STUDENT LOANS AND SCHOLARSHIPS

The Auxiliary to the American Osteopathic Association awards scholarships annually. An applicant for a scholarship must have received a tentative acceptance by an osteopathic college and must apply for the scholarship by May 1 of the year of matriculation. Applications and inquiries for the scholarships should be addressed to the Scholarship Chairman, Auxiliary to the American Osteopathic Association, 212 East Ohio Street, Chicago, Illinois 60611.

The Student Loan Fund of the American Osteopathic Association has been established to render financial assistance to third and fourth year students. Further information is available in the Financial Aid Office.

Philadelphia College of Osteopathic Medicine is a participant in the Health Professions Loan and Scholarship Programs under the Health Professions Education Assistance Amendments. Scholarships are awarded to those "from a low income family, and in need of the scholarship to be able to pursue" the course of study at Philadelphia College of Osteopathic Medicine. Loans are available to worthy students based on need and availability of funds. The programs are administered by the Financial Aid Office.

A pamphlet entitled "Sources of Financial Aid" has been prepared by the Financial Aid Office to advise students of other loans and scholarships. This pamphlet will be distributed to each applicant or upon request.

STUDENT EMPLOYMENT

The program of professional study is much more rigorous than those of the pre-professional curriculum. It is recommended that

the student engage in no outside work or extracurricular activity involving any considerable time or energy while attending Philadelphia College of Osteopathic Medicine.

SELECTIVE SERVICE

Each male applicant is urged to maintain a very clear standing with his draft board. Applicants are reminded that they should take the Selective Service College Qualification Test, as soon as possible after reaching their 18th birthday. Since standing in class is a heavy factor with the draft board, applicants are urged to try to maintain a very high class standing.

STUDENT HEALTH SERVICE

A health and accident insurance program is provided without extra cost to undergraduate students of the College:

1. Physical examination at least once a year, including roentgen-ray study of the chest.
2. Three clinic or bedside appointments by a staff osteopathic physician for any one disability.
3. Laboratory and special examinations when approved by the Student Health Service.
4. A Blue Cross membership providing hospitalization benefits under the terms of the Semi-Private-Plan Subscription Agreement.
5. The privilege of subscribing for Blue Cross membership for dependents by paying the supplementary fee asked by the Blue Cross for such benefits. Payment to be made on a semi-annual basis.

STUDENT ACTIVITIES

Student Council

The interests of the students are managed by a Student Council made up of representatives of the four classes. The president of the organization is elected by the Student Council from the third-year class. Regular meetings are held throughout the year. The Student Council expresses itself in matters affecting general student interests and is the official liaison body between the student body and the college.

Societies

Other student organizations are the Biochemistry Society, the Catholic Guild, the Christian Osteopathic Society, the Hillel Society, the Internal Medicine Society, the Neurological Society,

the Obstetrical Society, the Pediatrics Society, the Undergraduate Academy of Applied Osteopathy, and the Undergraduate Chapter of the American College of General Practitioners in Osteopathic Medicine and Surgery. These organizations meet regularly to discuss diversified topics in their respective fields. The wives of students are organized as a Student Wives' Association, affiliated with the Auxiliary to the American Osteopathic Association.

Fraternities and Sororities

Fraternities with chapters at Philadelphia College of Osteopathic Medicine are Iota Tau Sigma, Phi Sigma Gamma, Atlas, and Lambda Omicron Gamma. The Sorority at Philadelphia College of Osteopathic Medicine is the Omega Chapter of Delta Omega.

An interfraternity council, consisting of representatives from each fraternity, supervises and directs the affairs of common interest to these organizations, subject to consultation with the Dean, and working cooperatively with a committee of the Student Council.

Honor Society

Sigma Sigma Phi, of which Zeta Chapter is the Philadelphia College of Osteopathic Medicine unit, is an osteopathic honor society election to which is based upon scholarship and leadership in college activities. The society, in addition to its function of recognition of leadership, also serves as a service group wherever it can be of help in the college's affairs. Selection of candidates for membership is by vote of both student and faculty members.

REQUIREMENTS FOR GRADUATION

Every candidate for the degree of Doctor of Osteopathy (D.O.) must be at least twenty-one years of age, be of good moral character, have satisfactorily passed all prescribed examinations, have satisfactorily completed the program of study required for the degree, including specific departmental requirements such as those in Pathology for the preparation of protocols on at least six autopsies, and must be free from indebtedness to the College, and its affiliated organizations. The candidate must attend in person the commencement at which the degree is conferred.

Attendance at the College is a privilege granted to the student in consideration of his performance of specified assignments and maintenance of established standards of personal and professional conduct.

The College reserves the right, and the student, by his act of matriculation, concedes to the College the right to require his withdrawal at any time the College deems it necessary to safeguard its standards of scholarship, conduct and compliance with regulations or for such other reasons as are deemed appropriate.

HOSPITAL INTERNSHIPS

Each year selected members of the graduating class are recommended for appointment as interns to serve for one year from the July 1 following graduation. This selection is made on the basis of character and personality, as well as intellectual fitness, academic and clinical record. The faculty of Philadelphia College of Osteopathic Medicine also assists graduates in securing positions as resident interns in other hospitals throughout the country. The demand for interns from Philadelphia College far exceeds the supply.

REQUIREMENTS FOR PRACTICE

A student attaining the degree of Doctor of Osteopathy is required to take state board licensing examinations in order to practice in the state or states of his choice. Such examinations are given by state boards of osteopathic examiners, medical boards or composite medical and osteopathic boards of examiners, as regulated by the laws of the several states. The passing of board examinations and the subsequent licensing includes the privilege of registering for practice in some other states without further examinations. Students and graduates of Philadelphia College of Osteopathic Medicine are eligible for examinations of the National Board of Osteopathic Examiners.

ALUMNI ASSOCIATION

This Association of the graduates of the College was organized soon after the turn of the century. Among its stated objectives were included the following, "to promote the interests and prosperity of Philadelphia College of Osteopathy" and "to encourage a high standard of osteopathic education."

Now some seventy years later the roll of the Association numbers over 3100 graduates.

The Association is well organized with officers and a Board of Directors meeting regularly to direct the affairs of the Association in the best interest of the College and the graduate membership.

An annual reunion of alumni is held each spring just prior to graduation. A professional program is offered during the reunion with prominent alumni as speakers.

Among its recent activities the Association has established a student loan scholarship fund which while only in its beginning stage nevertheless lends promise to the future.

The College provides facilities for an Office of Alumni Affairs located in the Administration Building, 4150 City Avenue. Mr. Paul J. Gebert, Executive Secretary of the Association, is in charge.

Any graduate of the College enjoying good professional standing is qualified for membership in the Alumni Association.

OFFICERS — 1971-1972

President, DR. CHARLES W. SAUTER, II, '31

President-Elect, DR. ROBERT W. FUREY, '52

Vice President, DR. CHARLES H. BRIMFIELD, '41

Immediate Past President, DR. GALEN S. YOUNG, '35

Secretary, DR. CHARLES W. SNYDER, JR., '33

Treasurer, DR. CHARLES A. HEMMER, '43

Historian, DR. PAUL T. LLOYD, '23

Executive Secretary, PAUL J. GEBERT

Representing the College Administration,

THOMAS M. ROWLAND, JR.

Board of Directors: DRs. JOHN McL. BIRCH, '43; BRUCE A. BOCHMAN, '56; JOHN A. CIFALA, '45; OTTERBEIN DRESSLER, '28; A. ARCHIE FEINSTEIN, '42; PHILIP E. GREENMAN, '52; ALFRED A. GRILLI, '48; HENRY N. HILLARD, '34; J. MARSHAL HOAG, '34; RICHARD S. KOCH, '38; ALEX E. MARON, '46; ROBERT S. MAURER, '62; HENRY SALKIND, '56; GEORGE B. STINEMAN, '32; WILLIAM B. STRONG, '26; WILLIAM B. WILSON, '32; ALEXANDER D. XENAKIS, '56.

SCHOOL OF PRACTICAL NURSING

Philadelphia College of Osteopathic Medicine opened its School of Practical Nursing in September of 1969. The one-year curriculum in this school leads to a certificate in practical nursing which entitles the holder to sit for state board examinations. Students receive instruction in seminar type classroom sessions and in the various services of the college's Barth Pavilion. Because classes are small, instruction is personal. Candidates for admission must have a high school diploma or its equivalent. Enquiries may be addresed to Director, School of Practical Nursing, Philadelphia College of Osteopathic Medicine, 4150 City Avenue, Philadelphia, Pa. 19131.

Basic Philosophy

BASIC PHILOSOPHY OF OSTEOPATHIC MEDICINE*

Osteopathic Medicine is a philosophy, a science, and an art. The osteopathic profession, from its inception, has recognized the importance of a philosophy as a necessary component of the healing art.

Basic premises accepted by the osteopathic school of the healing arts, providing a definite way of viewing health and disease, are:

1. Structure and function are mutually and reciprocally interdependent.
2. The body tends to be self-regulatory and self-healing via a complex system.
3. Adequate function of the systems of the body depends upon the unimpeded flow of blood and nerve impulses.
4. The musculoskeletal system is one of the body systems, and its importance exceeds that of framework and support.
5. Somatic components of disease are not only manifestations of disease but are contributing and/or maintaining factors as well. Appropriate treatment is of significant value.

The adoption of these premises led to the development of the osteopathic total body concept. It is not a mechanistic total body concept. Man is to be considered ecologically rather than as an isolated unit. The man in his totality, individuality and environment are emphasized rather than dealing primarily in terms of the disease states of the moment. The emphasis is on the patient, and disease episodes are placed in their proper perspective.

*Adapted from AOA Brochure

HISTORICAL BACKGROUND OF OSTEOPATHIC MEDICINE

The rebellion against so-called classical medicine seemed to reach its peak in the eighteenth and nineteenth centuries. The Renaissance in medical science came a little later than in music, literature, art, and politics. During this era medical thought found itself released from the mental chains imposed by Galen and Avicenna and throughout the world many scientific advances in medicine became apparent. Theorizing in medical thought became a vogue. It is to the credit of Andrew Taylor Still that he was able to see health and disease as simply as he did in the face of the maze of philosophic observations and pseudoscientific theories of the age.

Medical thinking and writing changed slowly. Practice of the healing art in the nineteenth century included much of medieval thought concerning diabolical and supernatural causes of disease. Theory and superstition presided over the compilation of the British pharmacopoeias, which were published from the sixteenth to the nineteenth centuries.

Historical studies reveal¹ that with the increase in scientific and medical knowledge, apprenticeships in medicine became a vogue. Early in the eighteenth century a few ambitious Americans, having served their time as apprentices, traveled to the lecture halls and hospital wards of Leyden, Edinburgh, Paris, and London. Returning to America, they attempted to impart their knowledge to their less fortunate and less adventurous fellows. Thus informal medical training developed. As far back as 1750, more or less formal courses in midwifery were conducted in Philadelphia by Walter Shippen, the younger. In 1765, at the College of Philadelphia, a professorship in the theory and practice of medicine was established and chairs of anatomy, chemistry, and *materia medica* were added. From this small beginning, a medical school gradually developed.

With the very rapid expansion of America, independent medical schools, apart from universities, began to develop. These schools were largely private ventures and designed for profit, and the income was divided among lecturers. "Chairs" in these schools became valuable pieces of property, their prices varying with what was termed their "reflex value." This term represented the number of consultations referred through the loyalty of former students.

Admission standards were nonexistent, and no applicant who could pay his fee or sign his note was refused admission. The diploma was a license to practice. State boards were not yet in existence. The examinations, brief, oral and secret, eliminated

almost no students; even as at Harvard, a student for whom a majority of nine professors "voted" was passed. The man who had settled his tuition bill was thus practically assured of his degree whether he had regularly attended lectures or not.

Despite the fact that the osteopathic profession was born in this atmosphere of chaos, confusion, and chicanery in medical education, theory, and practice, it has survived, grown, and had tremendous impact on medical thought.

In 1874 when Still sought the privilege of explaining his ideas at Baldwin University, he was refused because his thoughts were not in conformity with accepted medical practice of the day. For the next eighteen years he continued to study and work alone. In 1892 Dr. William Smith, who had received his degree in medicine from the University of Edinburgh, consulted with Still concerning current medical education and his own thoughts regarding the etiology and management of disease. Two months later Dr. Still, with the assistance of Dr. Smith, opened a small school for the purpose of teaching anatomy. He subsequently established the American School of Osteopathy for the purpose of teaching his ideas relative to the etiology and management of disease. A comprehensive curriculum was developed, paralleling good medical education of the day. The course covered a period of two years, that is four terms of five months each. Following the establishment of this first school at Kirksville, Missouri, osteopathic colleges were rapidly established in other states. Most of these were private institutions. It is to the credit of the profession that the dangers of private ownership of educational institutions were quickly recognized, and early in the twentieth century consolidation of osteopathic colleges was accomplished. This finally resulted in nonprofit institutions which today comprise the osteopathic educational system. The osteopathic colleges are now evaluated by the American Osteopathic Association's Committee on Colleges, accredited by its Bureau of Professional Education, and approved by its Board of Trustees.

The history of the osteopathic profession is brief in comparison to the total history of medicine. It represents the only episode of the history of the health care in which an organized profession has given support to the philosophy of the total body concept. The history of Western medicine to the present day is to a considerable extent the story of the development of two antagonistic and irreconcilable conceptions of the nature of human illness—ecological versus specificistic medicine.

Throughout the entire period of recorded history, man has attempted to understand himself and his surroundings. His struggle to adapt himself physically and spiritually to his environment

has resulted in the development of magical concepts, of religious convictions, or philosophic systems, and of scientific theories.² If man had been able to maintain health in the face of all manner of environment and all kinds of pathogens, or if when he was ill no different regimen or care was necessary, there would have been no need for health investigation or physicians.

It is not surprising that early in the practice of the healing arts, different syndromes and diseases were recognized and classified and regimens were established for their care. This was the thinking of the Cnidian school of medicine. It is likewise not surprising that this concept received wide professional and public support. The basic philosophic and physiologic principles of the Hippocratic school of medicine were summed up by Hippocrates³ in the word *eukrasia*, or equilibrium of body components in health.

The Greeks made a magnificent step forward in their insistence on adherence to observation in the practice of medicine. After the death of Alexander in 323 B.C., the Greek influence was lost. The Hellenic lead was not followed. Man returned to his conformity to dogma and recourse to supernatural explanations of disease. For almost fourteen centuries no real advance in medical knowledge occurred. Mysticism, religious intolerance, and bigotry held sway over Europe. It was not until the late Renaissance, from about the middle of the sixteenth to the middle of the seventeenth century, that many learned men were again expressing views supporting the Hippocratic idea of *eukrasia*. In 1616, Harvey began to enunciate the doctrine of the circulation of blood and published his treatise on the subject twelve years later. This was a most important step in the evolution of medical science.

About the middle of the nineteenth century, Claude Bernard⁴ commented, "The organism is only a living machine constructed in such a fashion that on the one hand there is full communication between the external environment and the *milieu interieur* and on the other there are protective functions of organic elements holding living materials in reserve and maintaining without interruption humidity, heat, and other conditions indispensable to vital activity."

Approximately thirty years after Bernard made these observations, Andrew Taylor Still began to express his ideas concerning the body. He commented that the body had within itself all materials necessary to maintain health and combat disease; that an unimpeded nerve and blood supply to all parts of the body was essential for health. Since he regarded the body as a unit he insisted that disease in any part affected all parts.

Virchow, the father of cellular pathology, believed that the seat

of disease was the cell and insisted that disease was simply life under abnormal conditions. He stated in 1849, that "disease is only the orderly manifestation of definite phenomena of life (normal in themselves) under abnormal conditions with deviations that are simply quantitative."⁴ Bernard taught that the constancy of the internal environment was the condition of independent life. Both Bernard and Virchow showed that disease is a disturbance of this relative constancy.

Still's comments relative to the role of the musculoskeletal system and the body's ability to heal itself were made many years before W. B. Cannon, late Professor of Physiology at Harvard, coined the term "homeostasis."⁵ Cannon suggested that this term described the co-ordinated physiologic processes that maintain stable states in the body, involuntary as they may be.

The expressions of Still remarkably paralleled the medical thinking and philosophy of Hippocrates and his ideas of *eukrasia*—or equilibrium of the body components—and has continued as a thread of gold through all the mysticism, empiricism, and fanaticism of medicine over the years, being added to by many thoughtful individuals. During the last few years, an increasing number of scientists and medical philosophers have added to knowledge and thought about homeostasis and the mechanisms of health. One of these commented at about the turn of the century, "The strange part of medical history to the modern investigator is the fact that discoveries in anatomy and physiology which are of vital importance to the successful treatment of human diseases, were left stored away between the covers of books not deemed of any value except to whet the mind of the dilettante in medicine."⁶

Literature today is filled with material related to structure and function following the thinking of some of the great men of medicine. Still's idea relative to the importance of the musculoskeletal system and methods of modifying and correcting its abnormalities complemented other concepts and other therapies.

With the advent of the first osteopathic college in 1892, an educational system and a profession were born, dedicated to the total body concept. The organized expression of this age-old doctrine are having tremendous impact on the professions concerned with the health of mankind. More and more in literature concerned with professional care and areas of research are appearing the terms "ecological medicine," "total body concept," and "health mechanisms."

Since Still expressed his views, many other outstanding physicians and scientists have expressed themselves on subjects relating to man the unit. Among individuals deserving special mention

are Wiener,⁷ one of Cannon's ardent disciples, who coined the word "cybernetics" to describe control mechanisms, and Selye,⁸ who wrote "Stress and Disease," in which he said: "Perhaps the most fundamental difference between medieval and modern medicine is that the former was primarily based on pure empiricism and directed by mysticism and intuition, whereas the latter attempts to understand the mechanism of disease—through an objective scientific analysis—and to treat it by influencing well-defined points along the pathways of its development. Up to the present time the greatest progress that has been made along these lines has resulted in scientific therapeutic procedures that are designed to eliminate in each case the particular primary cause—the eliciting pathogen of a disease. . . .

"By contrast, throughout the centuries, we have learned virtually nothing about rational, scientifically well-founded procedures that would help the body in its own natural efforts to maintain health quite apart from the attacks on the pathogen. . . . Let us remember that it is not the microbe, the poison, or the allergen, but our reactions to these agents that we experience as disease."

Lambert and Goodwin⁹ wrote: "The cult of medicine is as old as birth, illness and death, and its origin is intimately connected with the beginning of the religious fear and taboo." From the time of Hippocrates, many thoughtful men, such as Galen, Bacon, Harvey, Descartes, Borelli, Malpighi, Morgagni, Bernard, Virchow, Still, Cannon, Richards, Wiener, and Selye, have attempted to place medicine on a more rational scientific basis. In this century an increasing number have expressed themselves on homeostasis, the mechanisms of disease, and body unity.

The osteopathic concept—a unitary, biologic perception of the total man—is undeniably ecological.

The schism that separates the two remaining schools of medicine is not fundamentally educational, social, ethical, moral or economic—although each factor plays its part—but is one heretofore inadequately recognized—a divergence in basic philosophy.

¹ Flexner, A.: An autobiography. Simon and Schuster, New York, 1960.

² Perez-Tamayo, R.: Mechanisms of disease; introduction to pathology. W. B. Saunders Co., Philadelphia, 1961.

³ Genuine works of Hippocrates (translated from the Greek by F. Adams). Williams & Wilkins Co., Baltimore, 1839.

⁴ Bernard, C.: Introduction to study of experimental medicine. Henry Schuman, N. Y., 1949.

⁵ Cannon, W. B.: Wisdom of the body. Revised ed. W. W. Norton & Co., New York, 1939.

⁶ Tasker, D. L.: Principles of osteopathy. Baumgart Publishing Co., Los Angeles, 1903.

⁷ Wiener, N.: Cybernetics or control and communication in the animal and the machine. Technology Press, Cambridge, Mass., 1948.

⁸ Selye, H.: Stress and disease. Science 122:625, Oct. 7, 1955.

⁹ Lambert, S. W., and Goodwin, G. M.: Medical leaders from Hippocrates to Osler. Bobbs-Merrill Co., Indianapolis, 1929.

Predoctoral Program

Courses of Study

SYNOPSIS OF CURRICULUM**FIRST YEAR**

FIRST TERM			
	Didactic	Laboratory or Clinical	Total
Anatomy I (Gross)	48	108	156
Anatomy II (Microscopic)	36	72	108
Clinical Correlation	12	..	12
First Aid	12	..	12
History of Medicine and Osteopathy	12	..	12
Osteopathic Principles and Practice Fundamentals I	12	24	36
Physiological Chemistry I	60	72	132
Psychiatry I	12	..	12
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Total	204	276	480

SECOND TERM

	Didactic	Laboratory or Clinical	Total
Anatomy I (Gross)	48	108	156
Anatomy II (Microscopic)	36	72	108
Clinical Correlation	12	..	12
Orientation	12	..	12
Osteopathic Principles and Practice Body Mechanics, Tissue Change, Lesion Diagnosis	24	36	60
Physiological Chemistry I	60	72	132
Psychiatry II	12	..	12
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Total	204	288	492

THIRD TERM

	Didactic	Laboratory or Clinical	Total
Clinical Correlation	12	..	12
Electives and Research	48	..	48
Internal Medicine, Alcoholism and Drug Dependency	12	..	12
Microbiology and Public Health	36	60	96
Neurosensory Sciences	48	60	108
Osteopathic Principles and Practice, Extremities III	12	12	24
Physical Diagnosis	12	..	12
Physiology I	60	72	132
Psychiatry III	24	..	24
Radiology I	12	..	12
Research, Term Paper	24	..	24
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Total	300	204	504
Grand Totals (First Year)	708	768	1476

SECOND YEAR

FIRST TERM

	Didactic	Laboratory or Clinical	Total
Internal Medicine			
Physical Diagnosis	12	12	24
Microbiology and Public Health	36	48	84
Neurology I	24	..	24
Osteopathic Principles and Practice			
Mechanics IV	12	24	36
Pathology I	60	48	108
Pediatrics I	12	..	12
Pediatrics II	12	..	12
Physiology II	60	72	132
Psychiatry IV	12	..	12
Research, Electives	48	..	48
Surgery, Traumatic	12	..	12
Total	300	204	504

SECOND TERM

	Didactic	Laboratory or Clinical	Total
Cancer Education	24	..	24
Internal Medicine			
Diseases of the Kidney	12	..	12
Peripheral Vascular Diseases	12	..	12
Microbiology and Public Health	36	24	60
Neurology II	12	..	12
Obstetrics and Gynecology	12	..	12
Osteopathic Principles and Practice V and IX			
Extremities; Athletic Injuries	12	24	36
Pathology II	48	48	96
Pediatrics II	12	..	12
Pharmacology I	60	72	132
Psychiatry V	12	..	12
Radiology II	12	12	24
Research, Electives	72	..	72
Total	336	180	516

THIRD TERM

	Didactic	Laboratory or Clinical	Total
Internal Medicine			
Allergic Diseases	12	..	12
Bronchopulmonary Diseases	36	..	36
Cardiovascular Diseases	48	..	48
Endocrinology and Metabolic Diseases	24	..	24
Gastroenterology	36	..	36
Hematology	24	..	24
Rheumatology	12	..	12
Neurology II	12	..	12
Obstetrics and Gynecology	12	..	12
Ophthalmology	24	..	24
Osteopathic Principles and Practice VI and VIII	12	..	12
Otorhinolaryngology and Bronchoesophagology	36	..	36
Pathology III	24	..	24
Pediatrics III	12	..	12
Pediatrics IV	12	..	12
Pediatrics V	12	..	12
Pharmacology II	24	..	24
Physical Medicine and Rehabilitation	12	..	12
Research, Electives	60	..	60
Surgery			
General	36	..	36
Orthopedic	24	..	24
Urology	24	..	24
Total	528	0	528
Grand Totals (Second Year)	1164	384	1548

THIRD YEAR**FIRST TERM**

	Didactic	Laboratory or Clinical	Total
Cancer Education	12	..	12
Clinical Training	96	96
Dermatology and Syphilology	24	..	24
Internal Medicine			
Bronchopulmonary Diseases	36	..	36
Cardiovascular Diseases	24	..	24
Diseases of the Kidney	12	..	12
Peripheral Vascular Diseases	12	..	12
Obstetrics and Gynecology	24	..	24
Ophthalmology	24	..	24
Osteopathic Principles and Practice			
Athletic Injuries IX	12	12	24
Osteopathic Management VIII	12	12	24
Visiting Lectures XI	24	..	24
Otorhinolaryngology and Bronchoesophagology	36	..	36
Radiology III	24	..	24
Research, Electives	60	..	60
Surgery			
Anesthesiology	12	..	12
General	36	..	36
Urology	12	..	12
Total	396	120	516

SECOND TERM

	Didactic	Laboratory or Clinical	Total
Clinical Training (Clinic and Hospital)	312	312
Community Health	12	..	12
Internal Medicine			
Endocrinology and Metabolic Diseases	24	..	24
Osteopathic Principles and Practice			
Athletic Injuries IX	12	12	24
Osteopathic Practice X	12	..	12
Radiology III	24	..	24
Research, Electives	72	..	72
Surgery			
General	36	..	36
Urology	12	..	12
Total	204	324	528

THIRD TERM

	Didactic	Laboratory or Clinical	Total
Clinical Experience (Clinic, Hospital, Precepteeship)	144	432	576
Total	144	432	576
Grand Totals (Third Year)	744	876	1620

An interim Third-Year Clinical Training Program is conducted this year in the out-patient clinics, hospital, and special services. Students also receive general practice training via regulated and supervised precepteeships.

FOURTH YEAR

	Didactic	Laboratory or Clinical	Total
Internal Medicine			
Cardiology	24	..	24
Medical Jurisprudence	12	..	12
Osteopathic Principles and Practice			
Senior Seminar	36	..	36
Public Relations and Professional Economics	12	..	12
Radiology	12	..	12
Clinical Experience (Clinic and Hospital)	1856	1856	1856
Total	96	1856	1952

THIRD AND FOURTH YEARS

It is during these years that the student is provided with the bulk of his experience in direct patient care in the hospitals and general and special out-patient clinics. The program has been designed to correlate and integrate this training in a manner such that it presents a continuum of progression from the basic aspects of hospital and clinic life and patient care through to a point where the student, under the direct supervision of the attending physician, can assume responsibility for a patient.

In addition to formal didactic presentations as scheduled, seminars, laboratory and conference work are assigned in conjunction with the service (clinic and hospital) schedule.

GRAND TOTAL FOR FOUR YEARS: 6596 hours (2712 Lecture; 1188 Laboratory; Clinical Experience—Clinic and Hospital—2696).

Departments

ANATOMY

GINO DiVIRGILIO, B.Sc., M.Sc., Ph.D., Professor and Chairman
 EDWIN H. CRESSMAN, D.O., M.Sc.(Ost), Professor Emeritus
 ROBERT W. ENGLAND, A.B., B.D., M.S. in Ed., D.O., D.N.B., M.Sc.(Anat),
 F.A.A.O., F.A.S.H.A., F.A.C.G.P., Professor
 BLANCHE CLOW ALLEN, A.B., B.S. in Ed., D.O., M.Sc.(Anat), Associate
 Professor Emeritus
 LEMAR F. EISENHUT, JR., D.O., Associate Professor
 LEWIS G. TORRIERI, B.S., M.D., D.O., Associate—Embryology
 VINCENT T. CIPOLLA, D.O., Instructor
 ANTHONY FASANO, A.B., Ph.D.(Cand.), Instructor
 FRANK J. HENDRICKS, A.B., D.O., Assistant
 ANTHONY P. DEL BORRELLO, A.B., D.O., Clinical Assistant
 GOPI M. GHOSH, M.B., M.Sc., Clinical Assistant
 JOAN MOORE, A.B., M.A., Laboratory Assistant

First Year

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| ANATOMY I. Gross. Dr. DiVirgilio and associates. Lectures, conferences, and laboratory dissection. Systematic study of the human body. Emphasis is placed on the direct bearing of anatomical facts upon clinical problems. Dissection is carried out in small groups..... | 312 hours |
| ANATOMY II. Microscopic. Drs. Cressman and Torrieri. A combined lecture and laboratory course. Histology and embryology are presented simultaneously..... | 216 hours |
| ANATOMY III. Neurosensory Sciences. Drs. DiVirgilio, Bradford, Guest, and associates. An integrated approach to neuroanatomy, neurophysiology, neuropathology, and clinical neurology consisting of lectures, conferences, laboratory dissection, and demonstrations | 108 hours |
| ANATOMY IV. Predoctoral. Elective. Dr. DiVirgilio and associates. Lectures and demonstrations. Anatomical facts are discussed from the point of view of their application to practical problems met by the physician and surgeon. The lectures and demonstrations serve to emphasize the relationship of anatomy to the practice of osteopathic medicine and its specialties.... | 24 hours |

Postdoctoral Studies

Postdoctoral programs in Gross Anatomy and various aspects of the Neuroanatomical Sciences. Correspondence should be directed to the Department Chairman with a copy to the Dean.

CLINICS

ROBERT H. ABBOTT, D.O., Director—Laporte Medical Center

ELEANOR V. MASTERSON, A.B., D.O., Director—48th Street

HENRY A. POLK, B.S., D.O., Acting Associate Director—20th Street

Professional Teaching Supervisors

SHERWOOD BERMAN, A.B., D.O.

ALBERT M. SARKESSIAN, D.O.

JOHN GIANFORTE, D.S.C., D.O.

EDWARD SPOLL, B.S., D.O.

*RUSSELL GRIESBACK, JR., A.B., D.O.

ROBERT A. WEISBERG, B.Sc., D.O.

MAURICE ROSMAN, B.A., D.O.

BARCLAY M. WILSON, B.A., D.O.

The Department of Clinics operates the clinical schedule of the fourth year class throughout the entire year. During the third year there are periods of clinical service for each student. In the fourth year the student is in clinical service, as well as serving a clerkship in the hospitals.

The teaching in the clinic is done through the Out-Patient Service of the two hospital units under supervision of physicians in active practice who devote a specified number of hours each week to the "practice" conducted by each student in his own assigned "office" in the clinic. The pattern of the program is to make the student's clinic work as nearly as possible like his routine will be in actual practice after graduation.

As patients register in the general clinic, they are assigned to a particular student who takes a complete history and performs a complete physical examination, including a thorough spinal examination. On the basis of the findings in the history and physical examination, the student makes a provisional diagnosis and formulates the course of therapy. The student then consults with a professional teaching supervisor, who counsels the student on each phase of the case. This personalized teaching ties together the work of the first three years and applies it to individual patients.

There are daily group conferences in which the professional teaching supervisors work with the students and during which there is general discussion of the various patients under treatment.

The clinical teaching extends into the hospital at the clerkship level. This provides experience in the administration of osteopathic manipulative treatment of all hospital patients. During his clerkship, the fourth year student may also assist in clinic deliveries and has the opportunity to observe and assist at surgical

*Leave of Absence

procedures. In all phases of the hospital clerkship schedule there are regular conferences with professional supervisors as well as the chairmen and members of the various specialty departments.

Throughout the fourth year, particularly in the Out-Patient Department, there are visiting lecturers and consultants from the general staff of the hospital and the teaching departments of the College, arranged by the Director of Clinics at stated times and for specialized purposes as cases warrant. Prominent physicians are frequent visitors to the Out-Patient Department and their services are a source of additional benefit to the students
..... 2000 hours

DERMATOLOGY AND SYPHILOLOGY

WALTER L. WILLIS, D.O., F.A.O.C.D., Clinical Professor—Acting Chairman
EDWIN H. CRESSMAN, D.O., M.Sc.(Ost), Professor Emeritus

*ISRAEL FELDMAN, Ph.G., D.O., F.A.O.C.D., Clinical Professor Emeritus

*A. P. CORCORAN, B.S., D.O., Clinical Assistant

Third Year

DERMATOLOGY AND SYPHILOLOGY. Dr. Cressman and assistants. This course aims to prepare the general practitioner in the diagnosis and management of cutaneous diseases and syphilis. All of the common eruptive diseases are discussed and shown by means of abundant color slides. It is possible by this excellent means to present visually the diseases with all of their characteristics and variations. The student will learn the use of topical therapy, prescription writing and the special diagnostic and therapeutic procedures 24 hours

Fourth Year

There is clinical teaching in the out-patient service at both 48th Street and 20th Street. These teaching clinics are held every Tuesday afternoon starting at 2 and continuing until all patients are seen. There are regular conferences each week at both hospitals. Cases are selected for these conferences which present interesting diagnostic and management problems.

*Leave of Absence

HISTORY OF MEDICINE AND OSTEOPATHY

SHERWOOD R. MERCER, A.B., A.M., LLD., Professor

First Year

This course is an introduction to the history of medicine and osteopathy presented in the framework of the history of ideas which have had bearing on the development of medicine. Lectures and reading on important figures, movements and contributions in medicine with special emphasis on osteopathy....12 hours

INTERNAL MEDICINE

CLARENCE E. BALDWIN, D.O., M.Sc.(Ost), F.A.C.O.I., Professor—Acting Chairman
JOSEPH E. GILETTO, D.O., M.Sc.(Ost), Associate Professor—Acting Vice Chairman
WILLIAM F. DAIBER, D.O., F.A.C.O.I., Professor—Director of Cardiopulmonary Diseases
THEODORE W. STIEGLER, JR., D.O., F.A.C.O.I., Clinical Professor Emeritus
HENRY B. HERBST, D.O., Associate Professor Emeritus—Peripheral Vascular Diseases
ALBERT F. D'ALONZO, A.B., D.O., M.Sc.(Ost), F.A.C.O.I., Associate Professor
ALBERT J. FORNACE, D.O., Associate Professor
HARRY C. HESSDORFER, D.O., Assistant Professor Emeritus
WILLIAM J. GILLESPIE, D.O., Assistant Professor
SIDNEY KOCHMAN, D.O., Assistant Professor
PHILIP M. LESSIG, A.B., M.A., D.O., F.A.C.O.I., Assistant Professor
DOMINIC E. MARSICO, D.O., M.Sc.(Ost), Assistant Professor
ELEANOR V. MASTERSON, A.B., D.O., Assistant Professor
LOIS E. PULLUM, A.A., D.O., Associate
ALVIN ROSEN, A.B., M.A., D.O., Associate
MORTON SILVER, A.B., M.A., D.O., Associate
JOSEPH V. KOEHLER, A.B., D.O., Lecturer
MARVIN ROSNER, A.B., D.O., Lecturer
J. VINCENT HUFFNAGLE, A.B., D.O., Instructor
MARTIN D. BASCOVE, B.A., D.O., Clinical Assistant
BARRY L. GETZOFF, A.B., D.O., Clinical Assistant

First Year

FIRST AID. Dr. Gillespie. The students are taught the means employed in giving intelligent first aid to the injured in everyday medical and surgical emergencies.....12 hours

PHYSICAL DIAGNOSIS. Drs. Daiber, A. D'Alonzo, Giletto and Pullum. Lectures and demonstrations designed to have the student acquire an intimate knowledge of normal and abnormal signs, thus preparing him for the abnormal conditions encountered in his clinical and bedside work to follow. The class is divided into small sections so that students may receive personal attention. Cardiac murmurs and arrhythmias are taught with the aid of the educational cardioscope in group instruction 12 hours

Second Year

ALLERGIC DISEASES. Dr. Berman. Instruction in allergic diseases with particular application of the osteopathic concept with regard to marshalling the inherent defensive processes of the body to their maximum efficiency through osteopathic procedures 12 hours

BRONCHOPULMONARY DISEASES. Drs. Daiber, Gillespie and Rosen. Lectures, clinical conferences. The didactic work embraces lectures and oral quizzes on the etiology, diagnosis and treatment of the diseases of the respiratory system.....36 hours

CARDIOVASCULAR DISEASES. Drs. Daiber, Giletto and A. D'Alonzo. Didactic lectures and demonstrations embracing the diseases of the heart and circulatory system. The aim of clinical lectures and demonstrations is the application of methods as given in the physical diagnosis course to the study of abnormal signs 48 hours

DISEASES OF THE KIDNEY. Drs. Fornace and Koehler. A lecture program coordinated with the Department of Urology to consider medical diseases of the kidney.....12 hours

ENDOCRINOLOGY AND METABOLIC DISEASES. Drs. Baldwin, Pullum and Assistants. Lectures and clinical demonstrations on diseases of the ductless glands. Lectures and demonstration course dealing with disorders of metabolism, food-deficiency diseases and problems of nutrition..... 24 hours

GASTROENTEROLOGY. Drs. Lessig, Silver and Huffnagle. Lectures and demonstrations. This course is concerned with the necessary fundamental knowledge of diseases of the alimentary tract; the anatomy and physiology of the stomach and intestinal tract; and the etiology, pathology, diagnosis and treatment of various gastrointestinal conditions. Special attention is given to complete histories and physical examinations. The work is carried on through demonstrations with patients who are undergoing treatment 36 hours

HEMATOLOGY. Dr. Baldwin and Assistants. A lecture and demonstration course dealing with anemias, diseases of the blood-forming organs, the hemorrhagic diseases, etc.....24 hours

PERIPHERAL VASCULAR DISEASES. Dr. Huffnagle. One lecture weekly with lantern slides. Emphasizes differential diagnosis and therapy, particularly manipulative treatment.....12 hours

PHYSICAL DIAGNOSIS. Continuation.....24 hours

RHEUMATOLOGY. Dr. DiPiero. Lectures and demonstrations once weekly, embracing diseases of the joints and bones, diseases of muscles and myopathies without obvious change in the nervous system12 hours

Third Year

BRONCHOPULMONARY DISEASES. Interim Program.....36 hours

CARDIOVASCULAR DISEASES. Interim Program.....24 hours

DISEASES OF THE KIDNEY. Interim Program.....12 hours

ENDOCRINOLOGY AND METABOLIC DISEASES. Interim Program
.....24 hours

PERIPHERAL VASCULAR DISEASES. Interim Program.....12 hours

An interim Third-Year Program (1971-72) of clinical training is conducted in the out-patient clinics, hospital, and special services. Students are also trained in general practice in regulated and supervised preceptorships.

Fourth Year

The Fourth Year Program consists of a rotational roster through the clinical and ancillary services of a rotational clinic and the inpatient services of the hospitals of Philadelphia College of Osteopathic Medicine. The student conducts his own practice in the out-patient clinic under the supervision of faculty members who have been appointed as supervising physicians. He is responsible for history taking, the physical examination, including a spinogram, the provisional diagnosis and the differential diagnosis. After a conference with his supervising physician he proceeds with therapy and accompanies the patient to specialty consultation clinics when indicated.

In the hospital the student becomes a part of the team in patient care and participates in the diagnostic work-up as well as in treatment. Living in this atmosphere of hospital practice he is intensely exposed to the observation and study of a wide variety

of diseases including those of an emergency nature as well as subacute and chronic diseases. Throughout his course the importance of preventive medicine is constantly emphasized. Students are assigned to services at Landis Hospital, Eagleville Hospital, and Harbor Light Clinic.

LIBRARY SCIENCE

J. G. ROBERT ASTHON, B.S., M.S.L.S., Assistant Professor

Practical training in Library Science will be presented during the students' educational experience in the college.

MEDICAL JURISPRUDENCE

BERNARD J. PLONE, A.B., D.O., Assistant Professor

BENJAMIN R. DONOLOW, Esq., Lecturer

THE HONORABLE J. SYDNEY HOFFMAN, Lecturer

Fourth Year

During the fourth year a course in Medical Jurisprudence is given in order to prepare the student in the essentials of greatest practical importance in developing a working knowledge of Forensic Medicine and Pathology. The basic existing laws pertaining to the physician in his practice are stressed in order to prepare the student to take his place in the administration of justice.

MICROBIOLOGY AND PUBLIC HEALTH

ROBERT G. STOCKMAL, B.S., M.S., Ph.D., Assistant Professor—Acting Chairman

PHILIP M. LESSIG, A.B., M.A., D.O., F.A.C.O.I., Professor—Vice Chairman

JOSEPH F. PY, D.O., M.Sc.(Ost), Professor Emeritus

ARTHUR E. GREENE, A.B., M.Sc.(Bact), D.Sc., Instructor

IRENE M. GUTHRIE, B.S., Laboratory Assistant

CYNTHIA SATTERFIELD, B.S., Laboratory Assistant

JAMES E. PRIER, D.V.M., M.S., Ph.D., Consultant in Microbiology

The goal of the course of study offered is to provide the medical student with a basic knowledge of Medical Microbiology and Immunology, stressing those aspects which are relevant to the day-to-day practice of medicine.

The lecture course consists of initial treatment of the classic disciplines of Medical Microbiology, viz., Immunology, Parasitology, Bacteriology, Mycology, and Virology, in which the emphasis is placed on the microorganism and the diseases which it may produce. The subsequent portion of the course shifts the emphasis to infectious diseases having similar clinical manifestations and provides a basis for determination of the appropriate etiology and course of therapy.

The laboratory course is designed to familiarize the medical student with concepts of microbiological and serological methodology essential for the proper understanding of aseptic technique, collection and handling of specimens, laboratory processing of specimens, and the significance and interpretation of laboratory reports.

First Year

MICROBIOLOGY I (THE MICROBIAL WORLD AND HOST PARASITE RELATIONSHIP). Dr. Stockmal and staff. Lecture and laboratory instruction. An introduction to microorganisms; their classification, morphology, physicochemical and biological properties; as well as antimicrobial agents. An in-depth study of pathogenesis including microbial virulence factors and host defense mechanisms emphasizing the nature and reactions of antigens and antibodies, immunopathies, immunoprophylaxis, therapy and suppression 96 hours

RESEARCH (MEDICAL MICROBIOLOGY AND IMMUNOLOGY). Dr. Stockmal and staff..... by arrangement

Second Year

MICROBIOLOGY II (PARASITOLOGY). Dr. Lessig and staff. Lecture and laboratory instruction. A study of Protozoa, Helminths, and Arthropods that are involved either directly or indirectly in human disease; their morphology, physiology and life cycles; the diagnosis and treatment of the diseases they produce; and the control and prevention of these diseases..... 30 hours

(BACTERIOLOGY AND MYCOLOGY). Dr. Stockmal and staff. Lecture and laboratory instruction. An in-depth treatment of fungi, bacteria, and related forms which are pathogenic to man. Areas of concentration include: morphology and identification, pathogenesis, clinical findings, diagnostic laboratory tests, resistance and immunity, treatment and control..... 42 hours

MICROBIOLOGY III (VIROLOGY). Dr. Greene and staff. Lecture and laboratory/seminar instruction. A presentation of the principles of mammalian virology as they relate to human infection and disease which deals with the relevant aspects of basic virology, viral disease, laboratory diagnosis, chemotherapy, prevention and epidemiology 26 hours

(DIAGNOSTIC MICROBIOLOGY AND SEROLOGY). Dr. Prier and staff. Lecture and laboratory/seminar instruction. An aggregated dissertation concerning clinical laboratory diagnostic services including preparation and handling of specimens, laboratory processing of specimens, and laboratory reports and interpretations 10 hours

(CLINICAL SYNDROMES AND POTENTIAL ETIOLOGY). Dr. Stockmal and staff. Lecture and laboratory/seminar instruction. Infectious diseases having similar clinical manifestations are correlated with the various microorganisms which could be responsible. Stress is given to presumptive and differential diagnosis based on epidemiological, clinical, and laboratory evidence, knowledge of the statistics of infection and the analysis of the mode of onset and the progress of the disease.....36 hours

RESEARCH (MEDICAL MICROBIOLOGY AND IMMUNOLOGY). Dr. Stockmal and staff.....by arrangement

Third Year

ELECTIVE (IMMUNOLOGY IN CLINICAL MEDICINE). Dr. Stockmal. The immunological concepts underlying disease processes consisting of a treatment of the nature of the immune response, reactions in tissue mediated by humoral and cellular response, immunopathies, transplantation and tumor immunology..24 hours

RESEARCH (MEDICAL MICROBIOLOGY AND IMMUNOLOGY). Dr. Stockmal and staff.....by arrangement

NEUROLOGY AND PSYCHIATRY

GEORGE H. GUEST, D.O., F.A.C.N., Professor—Chairman

CECIL HARRIS, D.O., M. Sc.(Psyc), F.A.C.N., F.I.A.L.S., Clinical Professor
—Vice Chairman

MORTON S. HERSKOWITZ, B.S., D.O., Clinical Professor

I. JAY OBERMAN, D.O., Associate Professor

WILMER H. BATH, D.O., Assistant Professor

ANTHONY S. JANNELLI, A.B., D.O., Assistant Professor

IRWIN ROTHMAN, V.M.D., D.O., Associate

IRVIN A. PEARLSTEIN, D.O., Lecturer

NED BARON, D.O., Instructor

MARTIN GELMAN, B.Sc., Ed.M., Ph.D., Instructor

MARTIN B. GOLDSTEIN, B.S., D.O., Instructor

PHILIP KATZ, D.O., Instructor

EVERETT W. PETTIT, D.O., Instructor

HELEN H. COOK, D.O., Assistant

ALBERT HONIG, A.B., D.O., Assistant

MYRON J. KAPLAN, B.A., D.O., Clinical Assistant

ARMAND J. LUPO, B.A., D.O., Clinical Assistant

H. MICHAEL ZAL, B.A., D.O., Clinical Assistant

STUART ZUCKERMAN, B.S., D.O., Clinical Assistant

First Year

PSYCHIATRY I. Dr. Harris. An orientation course given for one hour a week during the first term of the first year. The place of psychiatry in the healing arts, and the place of psychiatry in the school of Osteopathic Medicine in particular, is discussed. The scope of the specialty, the importance of it to the general practitioner and opportunities for specialization are covered12 hours

PSYCHIATRY II. Dr. Herskowitz. Psychodynamics of personality structure, from infancy to senescence. Various theories of personality study are covered. The dynamics of normal adjustment receive attention 12 hours

Second Year

PSYCHIATRY III. Drs. Janelli, Oberman and Honig. Lectures and demonstrations covering the dynamics of interviewing and the different techniques of psychiatric examination are presented 24 hours

PSYCHIATRY IV. Dr. Guest and associates. Lectures and demonstrations covering the field of mental disorders. The course is designed to stress the problems as met by the general practitioner 12 hours

PSYCHIATRY V. A continuation. This course presents the entire descriptive field of all psychiatric and related disorders, including headaches, intoxications, organic brain syndromes, etc. The course also includes the entire range of therapy as applied to psychiatric illness, including psychotherapies, physical therapies, and various ancillary techniques.

There is a continual orientation designed to meet the needs of the general practicing physician both in the dynamic approach to mental illness and in therapy 12 hours

NEUROLOGY I. Dr. Guest and associates. A review of the anatomy and physiology of the nervous system as it applies to the problems of clinical neurology. The procedure of eliciting the neurologic history and technique of neurologic examination is covered in detail 24 hours

NEUROLOGY II. A systematic course of instruction covering diseases of the brain, spinal cord, peripheral nerves, and other related disorders. The specialty of Neurology is approached from the modern therapeutic point of view, including recent concepts of neurochemistry and neuroelectronics, and in therapy is intimately co-ordinated with other specialties such as Internal Medicine, Neurosurgery and Physical Medicine and Rehabilitation 24 hours

Third and Fourth Years

Ample clinical material is available, enabling the student to observe and in many cases to participate in the therapy and examination of psychiatric problems, both in the hospitals and clinics. In certain selected cases students not only have an opportunity to examine patients with psychiatric problems but to administer psychotherapy under close supervision of the psychi-

atric staff. Conferences are held regularly on certain special clinic cases by the psychiatric staff with students in attendance.

State Health Service. Under the supervision of members of the department, the fourth year students will have the privilege of serving a three-week student clerkship at a 1,300 bed state hospital where they will have the opportunity to observe all types of psychotics and their management. There will be ample opportunity to observe the various institutional treatments such as electroshock therapy, intensive psycho-pharmaceutical techniques, occupational therapy and the psychotherapy of the psychotic. They will also be able to observe patients with brain damage, due to arteriosclerosis, senility, etc. The social service and occupational therapy departments will also be available, enabling the student to observe in a direct manner the value of the various ancillary techniques in psychiatry.

This service is under the direction of a member of the psychiatric staff of Philadelphia College of Osteopathic Medicine and the practical work at the state hospital will be closely integrated with the college work of the previous three years.

NEUROLOGIC CONFERENCES. Two hours weekly, conducted by Head of Department. These conferences are held all year round and attendance by all third and fourth year students is mandatory. Also in attendance are members of the Department of Neurology and Psychiatry and a representative from the Departments of Radiology, Neurosurgery, Ophthalmology, Neuro-Otology, Internal Medicine and other Departments concerned with a specific case presentation.

OBSTETRICS AND GYNECOLOGY

FRANK E. GRUBER, D.O., F.A.C.O.O.G., Professor—Acting Chairman

WILLIAM G. MORRIS, B.S., D.O., Assistant Professor

ANITA H. ATKINS, A.B., D.O., M.Sc.(Obs and Gyn Sur), Assistant

HARRY B. DAVIS, A.B., D.O., Assistant

EMANUEL FLIEGELMAN, B.S., D.O., Clinical Assistant

LAZARUS M. KIRIFIDES, B.S., D.O., Assistant

CHARLES J. NEUN, B.S., D.O., Clinical Assistant

JOSEPH H. RIDGIK, A.B., D.O., Clinical Assistant

HERBERT WENDELKEN, B.S., D.O., Clinical Assistant

Second and Third Years

OBSTETRICS. Lectures and demonstrations and clinics. This course comprises a systematic study of normal pregnancy, labor and puerperium. A review of reproduction, as it pertains to the human, introduces the subject. This is followed by studies as it concerns the progress and management of normal pregnancy through its completion. The management of normal labor, the

diagnosis of the various presentations and the mechanisms of labor are stressed. This is followed by studies of the pathology of pregnancy, diagnostic methods and treatment.....12 hours

GYNECOLOGY. Lectures and demonstrations. The course is introduced by a review of the anatomy and physiology of the organs of reproduction. The non-surgical gynecological diseases are then presented. Lectures and demonstrations of the diagnostic and operative gynecology procedures are presented. Genital malignancy studies are correlated with those presented by the Cancer Training Unit. Family planning, sexual components of marital life and the psychological aspects complete the course12 hours

Third and Fourth Years

OUT-PATIENT SERVICE. Students are assigned to obstetrical and gynecological patients in the out-patient clinic. Practical management on an ambulatory basis under the supervision of a member of the service offered. A general practice (family service) approach is stressed. Family planning, the sexual components of marital life, the psychological aspects of the female are introduced into student-instructor conferences.

HOSPITAL SERVICE. Students are assigned to general hospital and obstetrical-gynecological service. On obstetrical service, the student is trained in history and physical examination of the obstetrical patient, given drills in the use of obstetrical forceps and vacuum extractors, weekly conferences and the beginning of the technical arts in preparation for the internship year. Facilities are provided for the student to be in the unit at all times.

On general hospital service, the techniques of gynecological history and examination are stressed. The student is expected to follow the patient through all the phases of the hospitalization.

A handbook is supplied containing information of assignments.

OPHTHALMOLOGY, OTORHINOLARYNGOLOGY AND BRONCHOESOPHAGOLOGY

CHARLES W. SNYDER, JR., D.O., M.Sc.(Oto), Professor of Otorhinolaryngology—Chairman

HERBERT WEINBERG, D.O., Associate Professor of Ophthalmology—Acting Chairman

H. MAHLON GEHMAN, D.O., M.Sc.(Ost), F.O.C.O., Professor Emeritus

J. ERNEST LEUZINGER, D.O., M.Sc.(Ost), F.O.C.O., F.A.C.O.S., Professor Emeritus

- JOHN W. SHEETZ, JR., D.O., M.Sc.(Ost), F.O.C.O., Clinical Professor of Otorhinolaryngology and Bronchoesophagology
HARRY I. STEIN, A.B., D.O., M.Sc.(Oto), F.O.C.O., Clinical Professor of Otorhinolaryngology and Neuro-Otology
ALVIN DUBIN, D.O., Assistant Professor in Otorhinolaryngology
JOHN J. KELCH, B.S., D.O., M.Sc.(Oph), Assistant Professor in Ophthalmology
THEODORE P. MAUER, A.B., D.O., M.Sc.(Oto), Assistant Professor in Otorhinolaryngology
T. KENNETH STANDRING, D.O., Associate in Ophthalmology
BERNARD M. ALPER, A.B., O.D., D.O., Instructor in Ophthalmology
LYNN F. SUMERSON, B.S., D.O., M.Sc.(Oto), Assistant in Otorhinolaryngology

The courses in ophthalmology and otorhinolaryngology are given in the second and third years. Clinical lectures and demonstrations to sections of the class form an important part of the work. The instruction is designed to meet the needs of a well-trained general practitioner. The purely osteopathic considerations involving etiology, pathology, diagnosis and treatment of eye, ear, nose and throat diseases are systematically discussed.

The work in bronchoscopy is designed to afford instruction to small groups of the senior class on those phases of peroral endoscopy that are considered of value to the general practitioner.

Second and Third Years

The following courses are offered in both the second and third years to facilitate the curriculum changes for 1971-1972.

LARYNGOLOGY AND RHINOLOGY. Dr. Snyder and associates. Lectures and clinical demonstrations, presenting from a practical standpoint, by means of case charts and models, the important osteopathic and surgical aspects of diseases of the nose and throat. The student is instructed in the use of instruments for examining the nose and throat as well as special osteopathic methods of examination and treatment. Stress is laid upon the nose and throat conditions encountered in general practice rather than in technical conditions. An intimate knowledge of the normal anatomy and physiology of these tracts is required as a basis for control and rational treatment.....16 hours

OTOLOGY. Dr. Snyder and associates. Lectures, demonstrations and technical work covering in a practical manner the acute and chronic clinical affection of the ear. The various pathological conditions are described and demonstrated to the class by the use of models and anatomical specimens. Again, the subject is

presented from the standpoint of the general practitioner, so that he may be qualified to handle intelligently the more common diseases and conditions requiring immediate attention. Particular regard is given to all forms of deafness. Results have been recorded in nearly all cases of catarrhal deafness under osteopathic methods. Operations are performed from time to time before the class to supplement the practical instruction.....14 hours

OPHTHALMOLOGY. Dr. Gehman and associates. The anatomy and physiology of the eyes are reviewed. The pathological changes encountered in selected conditions are presented, with consideration of types, causes, relation to general diseases, diagnosis and treatment. Lectures cover osteopathic and surgical aspects of diseases of the eye. Refraction is taught and demonstrated in lectures covering three weeks. General optical principles introduce the topic of refractive errors. The symptoms and treatment of the errors of refraction, including the indications for and methods of prescribing glasses, by the various means and methods of refraction, with and without cycloplegics, are taught and demonstrated24 hours

BRONCHOESOPHAGOLOGY. Dr. Snyder and staff. Clinical lectures and demonstrations. The students have the opportunity to become acquainted with the principles underlying the subject and to observe at close hand the actual treatment on clinical subjects. The clinical instruction is supplemented by cadaveric demonstrations, films, models and special dissections 6 hours

Fourth Year

OPHTHALMOLOGY. Dr. Gehman and associates. Students assist in the examination of the eyes for glasses by the method of refraction; they become familiar with the use of the ophthalmoscope and retinoscope; also the study of the visual fields. They study the eyegrounds in relation to metabolic diseases and observe surgical procedures of the eye and its adnexa.

LARYNGOLOGY AND RHINOLOGY. Dr. Snyder and associates. Practical examination of dispensary patients, also in-patients who are on clinic service. These patients are examined by the student under the direction of a supervisor, usually the member of the department on service at that time: both manipulative and local treatment of the nose and throat under the direction of a supervisor, and the correlation and evaluation of the patient with nose and throat diseases. In the hospital students observe surgical procedures of the throat and nose.

OTOLOGY. Dr. Snyder and associates. Practical examination of the ear. The use of instruments and modern audiometric examination. Students assist in static and caloric tests and the examination and treatment of the ear, both locally and by manipulative therapy under supervision; also, examination of the eardrum by using microscopic methods for a more accurate diagnosis of middle ear disease, and treatment by use of external drainage of the middle ear. In hospital they observe surgical procedures of the ear, including micro-surgery of the middle and internal ear. Students can observe these operations through an observation tube mounted on the microscope.

BRONCHOESOPHAGOLOGY. Dr. Snyder and associates. Students in hospital assist and observe in peroral endoscopic examination and study problems and view the pathology through the bronchoscope; also direct laryngoscopy and direct examination of the esopagus and stomach by gastroscopy. The students observe the treatment and speech rehabilitation of laryngectomized patients. The fourth year student gives no treatment in this highly specialized department; however, he is trained to do mirror laryngoscopy on clinic patients, and observes surgical procedures of the esophagus, larynx and neck; also the use of microlaryngoscopy in treatment of the vocal chords and removal of tissue for biopsy.

OSTEOPATHIC PRINCIPLES AND PRACTICE

ROBERT W. ENGLAND, A.B., B.D., M.S. in Ed., D.O., D.N.B., M.Sc.(Anat), F.A.A.O., F.A.S.H.A., F.A.C.G.P., Professor—Chairman
 C. HADDON SODEN, D.O., M.Sc.(Ost), Professor Emeritus
 DAVID HEILIG, A.B., D.O., M.Sc.(Ost), Professor
 NICHOLAS S. NICHOLAS, D.O., Clinical Professor
 JEROME SULMAN, A.B., D.O., Lecturer
 KATHERINE M. ENGLAND, A.B., D.O., D.N.B., F.A.C.G.P., Assistant
 RONALD T. MELTZER, B.S., D.O., Assistant
 HENRY A. POLK, B.S., D.O., Assistant
 MAURICE ROSMAN, B.A., D.O., Assistant
 WILLIAM R. BARNHURST, A.B., D.O., Clinical Assistant
 LEWIS J. BRANDT, D.O., Clinical Assistant
 *RUSSELL GRIESBACK, JR., A.B., D.O., Clinical Assistant
 JOEL L. LEVIN, A.B., D.O., Clinical Assistant
 MERRILL J. MIRMAN, B.Sc.(Pharm), D.O., Clinical Assistant
 ROBERT T. MOTSAY, D.O., Clinical Assistant
 STANLEY J. ROMAN, D.O., Clinical Assistant
 ALBERT M. SARKESSIAN, D.O., Clinical Assistant
 EDWARD SPOLL, D.O., Clinical Assistant

*Leave of Absence

First Year

PRINCIPLES AND PRACTICE I (FUNDAMENTALS). Dr. England and associates. Students are introduced to the concept and philosophy of the osteopathic school of the healing arts in lectures and practice sessions. Fundamentals in the art of observation, palpation and evaluation are presented. Practice session sheets are furnished for both instruction and recording of findings. Surface anatomy is studied and landmarks identified to lay a proper foundation for future work in this department as well as for physical diagnosis. Physiologic motions of the spine are considered in both lecture and practice sessions. Tests for active and passive motion are presented and carried out in practice sessions. Regional and intersegmental motion are considered. An accurate examination of the musculoskeletal system is required, complete with lesion diagnosis by the end of this course.....36 hours

PRINCIPLES AND PRACTICE II (SCIENTIFIC BACKGROUND; BODY MECHANICS; LESION DIAGNOSIS; LESION PATHOLOGY; NEUROANATOMIC BASIS OF THE LESION; MYOFASCIAL TECHNIQUES; LESION CORRECTION; MECHANICS). Dr. England and associates. Spinal lesion pathology and etiology are studied. Forces acting on and through the spine are considered as is articular strain. Regional study as well as the mechanics of the transitional areas are included. Myofascial evaluation and techniques are demonstrated and then practiced. The neuroanatomic basis of the osteopathic lesion and the greater osteopathic lesion complex are studied in detail. Techniques for the correction of lesions are demonstrated by the staff and practiced by the students. Considerations in the selection of technique are presented.....60 hours

PRINCIPLES AND PRACTICE III (EXTREMITIES), Dr. England and associates. Lectures and practice sessions are correlated and directed toward the understanding and management of various appendicular problems. Basic principles are taught and practiced along with basic techniques.....24 hours

Second Year

PRINCIPLES AND PRACTICE IV (MECHANICS; LESION PATHOLOGY; LESION CORRECTION). Dr. England and associates. Spinal lesion pathology and etiology are studied. Forces acting on and through the spine are considered as is articular strain. Regional study as well as mechanics of transitional areas are included. Techniques for correction of lesions are demonstrated by the staff and practiced by the students. Considerations in the selection of technique are presented.....36 hours

PRINCIPLES AND PRACTICE V AND IX (EXTREMITIES; ATHLETIC INJURIES). Drs. England and Nicholas and Associates. Lectures and practice sessions are correlated and directed toward the understanding and management of various appendicular problems. Basic principles are taught and practiced. Diagnosis and treatment of athletic injuries are presented with special attention to their emergency care and prevention. Techniques for strapping are demonstrated in detail and practiced.....36 hours

PRINCIPLES AND PRACTICE VI AND VIII (HEADACHE; THE OSTEOPATHIC RECORD; OSTEOPATHIC MANAGEMENT; SPECIAL TECHNIQUES). Dr. England and associates. Lectures and demonstrations will be presented as part of the study of headache and facial pain, including diagnostic implications, and consideration in technique selection as well as technique. Proper osteopathic recording and terminology will be reviewed. A complete examination and narration of same will be required. Lectures, demonstrations of technique and practice sessions will be devoted to considerations of techniques related to the specialties and the hospitalized patient as well as general practice.....12 hours

PRINCIPLES AND PRACTICE VII (ADVANCED TECHNIQUES: MYOFASCIAL, SPINAL, AND EXTREMITY)—ELECTIVE. Dr. England and associates. Lectures, demonstrations and practice sessions will be conducted in the practice session room. Additional techniques will be presented and practiced, with special opportunities for those who desire to further their ability. Permission to take this course must be received from the Department Chairman.....
.....12-24 hours

Modifications are included in the above courses of study to accommodate the present and proposed changes in the curriculum in such a way as to assure that all essential topics are included and that courses which may be correlated are combined for the best possible utilization of lecture and practice session time. The above is an interim program for the 1971-72 school year only.

Third Year

PRINCIPLES AND PRACTICE VIII (OSTEOPATHIC MANAGEMENT; SPECIAL TECHNIQUES). Dr. England and associates. Structural diagnosis and case management are presented. Lectures, demonstrations of technic and practice sessions will be devoted to considerations and technics related to the specialties as well as general practice24 hours

PRINCIPLES AND PRACTICE IX (ATHLETIC INJURIES). Dr. Nicholas and associates. Diagnosis and treatment of athletic injuries

are presented with special attention to their emergency care and prevention. Technics for strapping are demonstrated in detail and practiced24 hours

PRINCIPLES AND PRACTICE X (OSTEOPATHIC MANAGEMENT; PRACTICE ORGANIZATION). Dr. England and associates. Osteopathic management will be considered in greater depth and manipulative management discussed and demonstrated. The concept of general osteopathic treatment will be evaluated. Practice organization plus practical suggestions will be presented to help the student whether he anticipates a general (family) or specialty practice12 hours

PRINCIPLES AND PRACTICE XI (VISITING LECTURERS). Special areas of interest will be presented by Visiting Lecturers. It is our desire that our students receive a varied experience at this point, as others share their experiences in practice with them....24 hours

PRINCIPLES AND PRACTICE XII (ADVANCED SPECIAL TECHNICS). — ELECTIVE. Dr. England and associates. Advanced special technics will be demonstrated and practiced in the practice session area. Patient demonstrations will be utilized whenever possible. Permission of the Department Chairman is a requirement for admission to this course.24 hours

PRINCIPLES AND PRACTICE XIII (CRANIAL PRINCIPLES AND TECHNICS). — ELECTIVE. Dr. England. Basic fundamentals of the cranial concept will be studied, and observation, palpation, diagnosis and technic will be reviewed and practiced.24 hours

All courses for the first three years are required except those designated "elective."

Fourth Year

PRINCIPLES AND PRACTICE XIV (SENIOR SEMINAR). — ELECTIVE. Dr. England and associates. The Senior Seminar is designed for the edification of those most interested in osteopathic principles and practice. It will furnish additional opportunities for growth and development of abilities. Student participation and activity will be emphasized. The Seminar may be offered in each of the three terms.12 to 36 hours

CLINICAL EXPERIENCE. The out-patient department and hospitals, the osteopathic history, physical diagnosis and treatment of patients is given emphasis in the work of the fourth year students. Opportunities for continued development of ability in general, special and bedside technics and ability in diagnosis are afforded in the following general categories:

1. Special Clinic in Osteopathic Therapeutics: students may attend this clinic under the direction of a skilled osteopathic physician whereby individual attention is directed to a specific problem or problems in an individual patient.
2. Hospitals.
3. Out-Patient Clinics.

Clinical experience may be gained under adequate supervision and a meaningful learning experience is provided via living patients. Both the art and science of practice are blended, as training is given in vital patient care.

VISITING CLINICIAN PROGRAM. This Department participates in the Visiting Clinician Program of the American Academy of Osteopathy. Therefore twice a year a full week of special education by a physician is accorded the students through this cooperative endeavor. The presentations are geared to the various student levels.

Postdoctoral Studies

Postdoctoral courses, subjects, and hours may be arranged on demand. Correspondence should be directed to the Director of the Postdoctoral Program, with a copy to the Department Chairman.

Planned Courses and Programs will appear from time to time in the formal announcements of the many programs offered by the College Postdoctoral Division.

PATHOLOGY

MORTON GREENWALD, A.B., D.O., M.Sc.(Path), Clinical Professor—Acting Chairman

DANTE DI MARZIO, D.O., Assistant Professor—Acting Vice Chairman
SYED SHANE RAZA ZAIDI, B.S., M.Sc., M.S., Clinical Assistant

Second Year

PATHOLOGY I (Principles). Dr. Greenwald and staff. Lectures and Laboratory. The course is devoted to the study of the general pathological processes upon which the principles of pathology depend; namely, retrograde and progressive changes, circulatory changes, inflammation, regeneration, malformation, neoplasia, chemical and physical injuries, etc. As far as possible lecture and laboratory presentations are correlated. A museum of several thousand specimens provides ample demonstration material. Color slides taken at surgery and autopsy, as well as

commercial sets, are used as additional teaching aids. Microprojection; special demonstration of gross specimens and tissue slides; mounted color plates, line drawings, charts and diagrams are used extensively. The fundamental principles of autopsy examination are demonstrated. Students attend post mortem examinations under the direction of the Department of Pathology 108 hours

PATHOLOGY II (Systemic). Dr. Greenwald and staff. Lectures and Laboratory. The principles of pathology are applied in the study of the diseases of the organ systems of the body, by correlated lecture and laboratory presentations. The histological features of the pathological processes are studied in correlation with the gross anatomical and physiological alterations of the tissues, thus maintaining a unified concept of disease. The aids of microprojection, museum specimens and color slides are used throughout the course. The gross and microscopic features of fresh and frozen specimens from surgical operations and autopsies are demonstrated and correlated with the clinical findings of a given case.....96 hours

PATHOLOGY III (Clinical). Dr. Greenwald and staff. The basic principles and tests presented in biochemistry, microbiology, parasitology, physiology and pathology are applied to examinations of the blood, urine, feces, gastric contents, spinal fluid, exudates and transudates.....24 hours

Third and Fourth Years

The Department of Pathology provides opportunities for training in laboratory medicine with emphasis on the correlation of findings to diagnosis. Proper techniques for ordering laboratory procedures are stressed so that optimum service may be given to the patient and physician. The Department participates in the weekly Tumor Conferences as well as in other clinico-pathological conferences of the college and hospitals.

PEDIATRICS

SAMUEL L. CARUSO, A.B., D.O., M.Sc.(Ped), F.A.C.O.P., Clinical Professor—Acting Chairman

WILLIAM S. SPAETH, D.O., M.Sc.(Ped), F.A.C.O.P., Professor Emeritus

F. MUNRO PURSE, D.O., M.Sc.(Ped), F.A.C.O.P., Clinical Professor

SHERWOOD BERMAN, A.B., D.O., Associate (Allergist)

EUGENE E. GODFREY, A.B., D.O., M.Sc.(Ped), Instructor

The pediatric program consists of lectures, ambulatory pediatric outpatient clinics, inpatient neonatal and pediatric evaluation and discussion. Junior interns assigned to ambulatory

pediatric outpatient clinics are placed on 12-week service at both clinics where abundant clinical material is afforded the junior intern. Pediatric patients are assigned; history, physical examination, and case management are analyzed with the attending pediatrician on service at both outpatient clinics. Emphasis is placed on the relation of patient to family and community structure so that prophylactic aspects can be explored and treated.

Second Year

PEDIATRICS I. Dr. Godfrey. Lectures and audio-visual demonstrations. The didactic material consists of study of the fetus, high-risk pregnancies, premature and newborn high-risk cases, diseases affecting perinatal care of premature and full-term infants with management including demonstration of physical examination, discussion of normal, premature, and full-term infants 12 hours

PEDIATRICS II (INFECTIOUS DISEASES). Dr. Purse. Lectures and audio-visual demonstrations on infectious diseases and immunization agents used to control them. Differential diagnosis and management with community control are discussed.....24 hours

PEDIATRICS III. Dr. Caruso. The general diagnosis, symptomatology and treatment of the gastro-intestinal diseases peculiar to neonate, infancy, and childhood.....12 hours

PEDIATRICS IV. Dr. Caruso. Lectures on diseases of the respiratory system in neonate, infancy, and childhood. Clinical instruction supplements the lectures.....12 hours

PEDIATRICS V. Dr. Spaeth. Lectures on genitourinary diseases and emergency conditions in the pediatric age group.....12 hours

PEDIATRIC VI. Dr. Berman. Clinical lectures surveying field of allergy which includes immunology, diagnosis, hyposensitization, and drug therapy.....12 hours

Third and Fourth Years

Dr. Caruso and staff.

Outpatient Clinics. At both clinics, 48th Street and 20th Street, as well as both hospital emergency rooms, the junior interns examine well babies, sick children, and emergencies and, in consultation with pediatrician on service or his designate, treat and render medical care. Emphasis is placed on thorough history and physical examination and case review on each patient. Teaching is continued in pediatrics at both clinics with attending pedia-

trician on service to show positive physical findings and discuss case management individually and in conferences. Case referrals to appropriate specialty clinics is recommended and encouraged.

Conferences are held at regular intervals and case assignments are prepared by junior intern on rotating basis and moderated by attending pediatrician. Open discussion is encouraged and topical cases are discussed when in clinic.

Hospital Instruction. All hospital pediatrics is admitted to Barth Pavilion. Junior interns are assigned in small groups to inpatient pediatric cases and nursery. They are responsible for the history and physical examination, differential diagnosis, and case management with the attending pediatrician or physician. Pediatric procedures are demonstrated. Neonatal cases are discussed in the same manner except that neonatal procedures, perinatal care, and emergency neonatal methods are discussed and shown. Full-time hospital pediatrician allows for greater flexibility in osteopathic demonstration, discussion and teaching bedside.

Visiting lecturers are invited to participate in scheduled Pediatric conferences.

OUT-PATIENT DEPARTMENT. At 48th Street and 20th Street the students examine sick children in the Out-patient Department. A complete history and thorough examination is stressed. Each child's case is reviewed by the staff supervisor; diagnosis and treatment are discussed. If consultation is deemed necessary, consulting pediatricians or other specialists see the case. The students are urged and encouraged to attend consultations.

PHYSICAL MEDICINE AND REHABILITATION

LEON A. KOWALSKI, D.O., Assistant Professor—Acting Chairman

Second Year

PHYSICAL MEDICINE AND REHABILITATION. Lectures and demonstrations covering the principles and applications of modalities.

Application of the modalities when indicated in the management of clinic and hospital patients offers a wide range of experience 12 hours

PHYSIOLOGICAL CHEMISTRY

ALBERT P. KLINE, A.B., Ph.D., Professor—Chairman and Director of Research

YU CHEN LIN, A.B., M.S., Ph.D., Assistant Professor

JOSEPH PISCITELLI, A.B., M.S., Ph.D., Assistant Professor

NIKOLAI LOBUNEZ, B.S., Ch.Eng., Cand. Sc.(Kiev), M.Sc., Lecturer

JURI GUDIM LEVKOVICH, B.S., Laboratory Assistant

This department presents courses in physiological chemistry (medical biochemistry) so planned as to afford a maximum of practical assistance to the graduate in osteopathic medicine without sacrificing fundamentals in chemistry. Considerable stress is placed upon the chemistry of the metabolic processes of the human body during health and disease.

First Year

CHEMISTRY I (PHYSIOLOGICAL CHEMISTRY). Dr. Kline and staff. Lectures and laboratory instruction. A short review of some fundamentals of physical chemistry precedes the systematic study of the chemistry of the carbohydrates, proteins, lipids, enzymes, vitamins, hormones, and of metabolism, and other physiological processes. Where feasible, laboratory instruction parallels didactic studies. The class is divided into five sections for laboratory instruction 264 hours

Advanced Work

CHEMISTRY II. Seminars. Seminars on various topics in medical biochemistry are conducted in third and fourth years.

CHEMISTRY III. Research in Physiological Chemistry.

CHEMISTRY IV. Research in Physiological Chemistry.

PHYSIOLOGY AND PHARMACOLOGY

SPENCER G. BRADFORD, D.O., M.Sc.(Physiology), Professor—Chairman

PAUL H. THOMAS, B.S., D.O., PH.D., Professor

FRANK B. FALBEY, D.O., Assistant Professor

E. MILTON FRIEDMAN, A.B., D.O., Lecturer

THOMAS F. POWELL, A.B., D.O., Lecturer

NICHOLAS M. RENZI, D.O., Lecturer

NORMAN B. RICHTER, B.S., D.O., Lecturer

KODWO J. ABAIDOO, B.Sc., PH.D.(Cand.), Instructor

NICHOLAS J. GREGO, B.S., M.S., PH.D.(Cand.), Instructor

GEORGE W. ABBAS, B.S., Laboratory Assistant

First Year

PHYSIOLOGY I. General. Dr. Bradford and assistants. Students are presented the basic principles of physiology, covering basic cell physiology, blood, circulation, respiration, kidney, and the fundamental muscular and nervous physiology. They are indoctrinated in the fundamentals of the functional phases of the systems included in this portion of the course. At all times the

osteopathic concept is emphasized. In addition to the basic physiology, the initial bridging levels between the basic science and the clinical phases are established with records to illustrate the physiological principles. The conference system of instruction is used and a highly integrated program of audio-visual aids supplements the Lectures and Conferences. Laboratory sessions provide demonstration and actual use of a number of advanced research modalities 132 hours

Second Year

PHYSIOLOGY II. Dr. Bradford and assistants. The method of approach is the same as in Physiology I. The subject matter comprises metabolism, digestion, endocrine system and the central nervous system and special senses. The aim is to teach basic physiological principles with clinical applications as indicated....

..... 132 hours

PHARMACOLOGY I. Dr. Bradford and assistants. The pharmacodynamics of major drugs is described by classes, according to principal sites of action, such as central nervous system, cardiovascular system, and so forth. Detailed study is made of a typical or principal member of each group, and the significant differences of other group members are described. The underlying principles of drug therapy and its special role in osteopathic practice are presented, with frequent reference to the application of pharmacology to clinical situations. Consideration is given to the principles of drug actions and to interactions between therapeutic agents. A laboratory course comparable to those in Physiology gives the student direct experience with drug actions and side effects 132 hours

PHARMACOLOGY II (TOXICOLOGY AND MATERIA MEDICA). Drs. Falbey and Richter. These two concurrent courses are an extension of Pharmacology I. Toxicology offers instruction in the principles of recognition, treatment, and prevention of poisoning, as well as detailed coverage of the principal toxic agents. Materia Medica develops the discussion begun in Pharmacology I by dealing with the sources, preparation and prescription of drugs 24 hours

Third and Fourth Years

While there are no formal courses in physiology and pharmacology during the third and fourth years, consultations on the subjects in connection with hospital and clinic cases are frequently held. Members of the department also participate in a variety of post-doctoral programs and in undergraduate multi-discipline teaching.

PUBLIC RELATIONS AND PROFESSIONAL ECONOMICS

JOHN DEANGELIS, B.C.S., M.C.S., C.P.A., Associate Professor
 THOMAS M. ROWLAND, JR., B.S., Associate Professor

Fourth Year

This course is based on the Code of Ethics of the American Osteopathic Association, the relationships and responsibilities of the osteopathic physician to the community, his professional associates, his patients and himself, particularly in the practical implementation of public relations skills. Emphasis is also placed on medical economics, office management, tax procedures, accounting and record keeping12 hours

RADIOLOGY

JOHN J. GILLIGAN, A.B., D.O., M.Sc.(Rad), Professor—Chairman
 PAUL T. LLOYD, D.O., M.Sc.(Ost), D.Sc., F.A.O.C.R., F.A.C.O.S., Professor Emeritus
 QUENTIN R. FLICKINGER, D.O., M.Sc.(Rad), Professor
 ROBERT L. MEALS, B.S., D.O., M.Sc.(Rad), Professor
 A. ALINE SWIFT, D.O., M.Sc.(Ost), Professor
 JON PETER TILLEY, B.A., D.O., M.Sc.(Rad), Associate Professor
 DAVID B. KUSNER, B.A., Assistant Professor, Radiation Physics
 RICHARD KISZONAS, B.S., D.O., M.Sc.(Rad), Associate

The Department of Radiology offers courses of instruction designed and arranged so as to acquaint the student with the physical properties and the biological effects of ionizing radiations together with their application to the fields of diagnostic and therapeutic medicine, and to their uses in present day investigation and research.

First Year

RADIOLOGY I—Fundamentals of Radiology—Dr. J. Gilligan and associates. A required course to include an introduction and historical background of radiology, basic radiologic physics and radiobiology, radiation protection, atomic medicine, radioisotopes and radiation therapy, also introduction of normal radiographic anatomy. Offered 3rd Trimester of Freshman Year12 hours

Second Year

RADIOLOGY II—Radioisotope Laboratory—Dr. J. Gilligan and associates. A required course. To supplement Radiology I with lectures and radioisotope experiments so that the basic principles of radiations can be seen and appreciated. Offered 2nd Trimester of Sophomore Year24 hours

Third Year

RADIOLOGY III—Diagnostic Radiology—Dr. J. Gilligan and associates. An elective course. For those students who show genuine interest in the specialty and have proven so in their previous courses. To include the disease states of all the organ systems with review of both routine and special procedures to correlate with gross pathologic anatomy. Seminar type course, limit of 25 students. Offered 1st and 2nd Trimester of Junior Year (and if necessary during 3rd Trimester).....24 hours

Fourth Year

RADIOLOGY IV—Therapeutic Radiology—Dr. J. Gilligan and associates. An elective course. For those students who show continuing and further interest in the specialty and have successfully completed Radiology I, II, and III. A seminar type of course. To include the therapeutic use of orthovoltage, cobolt 60 and radioactive isotopes. Limit of 10 students. Offered during Senior Clerkship24 hours

CONFERENCES. Regular radiological conferences are presented by the Department of Radiology for the interns and residents. Such conferences are held throughout the college year. Cases currently active in the hospitals and clinics are presented and discussed. Student clerks are expected to be in attendance upon such conferences.

The Department of Radiology actively participates in other departmental conferences thus furthering the exposure of the student to medical radiology.

ELECTIVES. Qualified students, displaying particular interest in radiology may apply to the Chairman of the Department of Radiology for additional study applicable to areas of special interest.

During the summer, a limited number of students may be received in the Department of Radiology for concentrated study in diagnostic and therapeutic radiology.

SURGERY

GALEN S. YOUNG, D.O., M.Sc.(Sur), D.Sc., F.A.C.O.S., F.A.A.O., Professor—Acting Chairman

LEONARD FINKELSTEIN, B.S., D.O., M.Sc.(UroS), Assistant Professor, Acting Chairman—Urology

JOHN J. FLEITZ, A.B., D.O., Associate Professor—Acting Chairman, Proctology

- HERMAN KOHN, D.O., M.Sc.(Obs and Gyn Sur), F.A.C.O.S., Professor—
Vice Chairman, Surgery
- HERMAN E. POPPE, D.O., Clinical Professor—Vice Chairman, Orthopedic
Surgery
- J. CRAIG WALSH, D.O., M.Sc.(Anes), F.A.O.C.A., F.A.C.O.S., Professor—
Vice Chairman, Anesthesiology
- ARNOLD GERBER, D.O., M.Sc.(OrthS), F.A.C.O.S., Clinical Professor—
Orthopedic Surgery
- RAYMOND L. RUBERG, D.O., M.Sc.(Sur), F.A.C.O.S., Clinical Professor—
Neurosurgery
- *H. WILLARD STERRETT, JR., A.B., D.O., M.Sc.(UroS), F.A.C.O.S., Clinical
Professor—Urology
- ALBERT BONIER, D.O., M.Sc.(Sur), F.A.C.O.S., Associate Professor
- *DEWAINE L. GEDNEY, D.O., Associate Professor
- CHARLES A. HEMMER, A.B., D.O., F.A.O.C.A., Associate Professor—Anes-
thesiology
- ROBERT A. WHINNEY, D.O., M.Sc.(UroS), Associate Professor—Urology
- HARRY E. BINDER, D.O., Assistant Professor
- HENRY A. D'ALONZO, D.O., M.Sc.(Sur), Assistant Professor
- NICHOLAS PEDANO, B.S., D.O., Assistant Professor
- WARREN H. SWENSON, D.O., M.Sc.(Sur), F.A.C.O.S., Assistant Professor
- WILLIAM E. BRIGLIA, D.O., Associate—Proctology
- JEROME A. GREENSPAN, D.S.C., D.O., Associate—Proctology
- THOMAS F. POWELL, A.B., D.O., Associate
- HARTLEY R. STEINSNYDER, D.O., M.Sc.(UroS), F.A.C.O.S., Associate—
Urology
- DOMINIC J. SALERNO, B.Sc., D.O., M.Sc.(OrthS), F.A.C.O.S., Lecturer—
Orthopedic Surgery
- VINCENT T. CIPOLLA, D.O., Instructor
- ANTHONY P. DELBORRELLO, A.B., D.O., Instructor
- *MICHAEL GINDER, D.O., Instructor
- DAVID SILVERMAN, D.O., F.A.C.O.S., Instructor
- EDWARD A. GOTFRIED, B.A., D.O., Assistant
- ANTHONY A. MINISSALE, B.S., D.O., Assistant
- ROBERT B. SWAIN, B.S., D.O., Assistant—Urology
- LEONARD B. SEGAL, A.B., D.O., Clinical Assistant

First Year

CLINICAL CORRELATION. Members of the Department of Surgery participate in this program (designed to include all specialties of medicine and surgery) of correlation of clinical aspects with the basic sciences throughout the first year.....36 hours

Second Year

SURGERY I (PHYSICAL DIAGNOSIS). Members of the Department participate in this cooperative lecture and practice course in physical diagnosis along with members of the Departments of Internal Medicine and Osteopathic Principles and Practice.....24 hours

*Leave of Absence

SURGERY II (TRAUMATIC). Lectures and demonstrations designed to present to the student the principles and concepts of the diagnosis and treatment of dislocations and fractures. The skeletal system alone is studied in the first term. In the second term the subject matter is primarily that of the handling of the patient with specific trauma due to massive lacerations, gunshot wounds and burns. In addition a number of lectures are devoted to acquaint the student with the legal implications of the traumatized patient from the liability and workmen's compensation aspect. The third term initiates the student in orthopedic surgery with the start of the study of surgical diseases of bone.....12 hours

SURGERY III (GENERAL). Lectures and conferences dealing with regional surgery, including the study of gross pathology, surgical diagnosis and differential diagnosis. Clinical lectures during the performance of various operations with emphasis placed on diagnosis, treatment and aftercare.....36 hours

SURGERY IV (ORTHOPEDIC). Lectures and demonstrations, with formal exercises which serve as an introduction to clinical work. The course covers tuberculosis of bones and joints, spinal deformities, congenital malformations, traumatic and acquired deformities, etc., and the use and application of orthopedic apparatus. The clinic material available includes all classes of orthopedic cases

24 hours

UROLOGY I. Basic fundamentals of genito-urinary diseases are given, including leading signs, symptoms, and findings in genito-urinary diseases, as well as discussion of all diagnostic procedures. Diagnostic urologic workup, both in office and hospital, is discussed. Demonstration of urologic instruments is given. Lecture material consists of diseases, malformations, and injuries of the penis, urethra, scrotum and scrotal contents, seminal vesicals, prostate, Pediatric Urology (stressing the most common problems encountered in this area), urethral and bladder disorders in the female. Discussions include diagnosis and both conservative and surgical treatments

12 hours

UROLOGY II. Consists of lectures discussing diseases, injuries, and malformations of the urinary bladder, including acute and chronic infections, calculus disease, iatrogenic injuries, tumors of the urinary bladder, as well as their treatment; calculus disease of the kidneys and ureters; diseases, malformations, and injuries of the kidneys and ureters; tumors and cysts of the kidneys and adrenal glands. Management of the urologic patient with indwelling catheter and urinary diversion is also given. Discussions of urologic aspect of medicalrenal disease is given, at time in conjunction with the Department of Medicine.....12 hours

Third Year

ANESTHESIA I. Lectures and demonstrations. The general physiology of anesthesia; methods of producing general anesthesia; selection of the anesthetic; methods of administration; problems confronting the anesthetist; guides during the anesthesia, methods of resuscitation, etc.12 hours

SURGERY III (GENERAL). Lectures and conferences dealing with regional surgery, including the study of gross pathology, surgical diagnosis and differential diagnosis. Clinical lectures during the performance of various operations with emphasis placed on diagnosis, treatment and aftercare72 hours

SURGERY V (ANIMAL SURGERY). During the educational experience of the student in surgery, a course is given in animal surgery *in vivo*. It is the purpose of this discipline to acquaint the student with work in a sterile environment on a living, anesthetized specimen. This procedure is designed to instruct him in the control of hemorrhage and the laws of sterility, thereby preparing him to obtain confidence in his ability to perform prior to aiding in the Out-Patient Department of the Clinics and in practical preparation for his internship. This is presented as of part of the Clinical Experience Program.

UROLOGY I. Basic fundamentals of genito-urinary diseases are given, including leading signs, symptoms, and findings in genito-urinary diseases, as well as discussion of all diagnostic procedures. Diagnostic urologic workup, both in office and hospital, is discussed. Demonstration of urologic instruments is given. Lecture material consists of diseases, malformations, and injuries of the penis, urethra, scrotum and scrotal contents, seminal vesicals, prostate, Pediatric Urology (stressing the most common problems encountered in this area), urethral and bladder disorders in the female. Discussions include diagnosis and both conservative and surgical treatments12 hours

UROLOGY II. Consists of lectures discussing diseases, injuries, and malformations of the urinary bladder, including acute and chronic infections, calculus disease, iatrogenic injuries, tumors of the urinary bladder, as well as their treatment; calculus disease of the kidneys and ureters; diseases, malformations, and injuries of the kidneys and ureters; tumors and cysts of the kidneys and adrenal glands. Management of the urologic patient with indwelling catheter and urinary diversion is also given. Discussions of urologic aspect of medicalrenal disease is given, at time in conjunction with the Department of Medicine.....12 hours

Fourth Year

Fourth year students are required to observe operations at both 48th Street and City Avenue. The hospital-clerkship schedule involves a schooling in the fundamentals of operating room and anesthesia room methods and behavior.

Certification for graduation by the Surgical Department will require regular attendance upon group assignments, in the operating rooms, post-operative areas, emergency rooms and surgical clinics as assigned.

Practical surgical experiences are obtained in these areas, through lectures, demonstrations, conferences and actual participation under supervision. Participation in the activities in the above areas provide the fourth year student with excellent opportunities for correlating and rounding out surgical information and data gained in the first three years of his pre-doctoral training. Conferences in the course of the outpatient department schedule develop recognition by the student of conditions suggesting surgical reference.

Unusual cases of teaching value in surgery are constantly being reviewed in the clinics and hospitals. These cases serve as good material for Grand Rounds in the hospitals, which are under the direction of the senior surgeon in charge. Conferences and lectures are conducted throughout the entire year in General and Traumatic Surgery for externs, interns, and residents. The students are requested to prepare and present these teaching cases under the direction of an attending surgeon. Guest surgeons, who are outstanding in their respective disciplines, are invited to lecture to the surgical students from time to time during the year. This serves to give the student a wider scope of knowledge with diversification of opinion.

CLINICAL TRAINING PROGRAM

The third and fourth year educational programs at Philadelphia College of Osteopathic Medicine are largely conducted in the outpatient clinics and the Hospitals of the College. Course work is held to a minimum during these years and is scheduled so as to minimize any conflict with clinical duties and responsibilities.

Students are rotated through the out-patient clinics, including the facility at Laporte, Pennsylvania, and through all services at both hospitals. In addition, students may be assigned to members of the faculty for duties at other osteopathic hospitals. These, in effect, become teaching arms of the College since the respon-

sible physician is a member of this faculty in addition to his affiliation at the other hospital. A program of office preceptorships also affords practical office training. The student records patient histories and performs physical examinations under supervision. The educational program includes daily patient rounds when on clinical services. Didactic presentations may consist of lectures, conferences, case presentations, group instruction in auscultation and electrocardiography, etc. When possible and appropriate, case conferences concern patients on service in the hospitals and clinics. Students will rotate through hospital services in medicine, surgery, obstetrics and gynecology, radiology, pathology, pediatrics and emergency room.

When on service in the out-patient clinic, the student has his own group of patients whom he examines and treats under supervision. He also attends specialty clinics and case conferences. Tumor clinic with case conference is scheduled weekly and students are in attendance.

DIVISION OF CANCER EDUCATION

PAUL T. LLOYD, D.O., M.Sc.(Ost), D.Sc., F.A.O.C.R., F.A.C.O.S., Director
Pro tem, in charge of reorganization
CLARENCE BALDWIN, D.O., M.Sc.(Ost), F.A.C.O.I., Assistant Coordinator,
Assigned by Department of Internal Medicine.
F. MUNRO PURSE, D.O., M.Sc.(Ped), F.A.C.O.P., Clinical Professor,
Assigned by Department of Pediatrics
ELEANOR MASTERSON, A.B., D.O., Assistant Professor, Assigned by Department
of Clinics
*RUSSELL GRIESBACK, JR., A.B., D.O., Clinical Assistant, Assigned by
Department of Clinics

The Clinical Cancer Education Program at Philadelphia College of Osteopathic Medicine was instituted in 1950 being supported by a grant-in-aid from the National Cancer Institute, a division of the Public Health Service, U.S. Department of Health, Education and Welfare. The College also contributes to the support of the program which is designed to accent and coordinate the teaching of cancer. Support for this program is currently supplied through the agency of the American Cancer Society, Philadelphia Division, as well as from other sources.

The Clinical Cancer Education Program is organized to meet the needs of the predoctoral and postdoctoral areas of education. This applies to both basic science and clinical applications to the cancer problem and as measured and required by the rapidly mounting contributions of science to the field of oncology.

The stated objectives of the program are:

*Leave of Absence

- (1) To inform the student of the fundamental nature of cancer, of its natural history, etiology, epidemiology, pathology, clinical features, diagnosis, treatment, prognosis and end results.
- (2) To develop an alertness in the recognition of cancer early in its development; that is, to establish a high index of suspicion as a reflex behavior pattern on the part of the student.
- (3) To teach recognized methods of diagnosis and keep students informed of the development of any and all new and authentic diagnostic methods.
- (4) To teach the principles and results of definitive treatment of cancer as well as the palliative care of the incurable case and the proper management of the terminal patient.
- (5) To inform the student concerning the over-all care of cancer patients, including emotional, economic and social aspects of the disease.

A Tumor Clinic operates as a part of the clinical cancer teaching program and provides a means whereby the students actively participate in the detection, diagnosis and management of cancer. A Tumor Registry is maintained and available to students, faculty and staff. In addition, a Well Breast Clinic is conducted with one of its objectives the detection of unsuspected breast cancer.

Lectures and demonstrations illustrated by visual aids are offered during the first three years. These exercises are given in addition to and in support of the teaching of neoplastic disease as set forth in the syllabi of the several departments. A cancer study club for third year students meets twice monthly during the college year.

During the fourth year, weekly tumor conferences are held together with meetings of the Tumor Board of the faculty-staff. Faculty, house staff and student clerks participate in the conferences.

An elective seminar in Oncology is offered during the third term for second year students. Leaders of the seminar are selected fourth year students who work under the close supervision of faculty members.

The Clinical Cancer Education Program is not static and is therefore subject to frequent modification and change. As this announcement is prepared, revision of the program is again underway.

Students and the profession generally are invited to attend the Annual Cancer Teaching Day Program sponsored by the faculty of the college.

A Tumor Board functions at the clinical level and involves itself in the areas of diagnosis and management of cancer patients received for care.

DIVISION OF CARDIOVASCULAR EDUCATION

WILLIAM F. DAIBER, D.O., F.A.C.O.I.—Program Director
SPENCER G. BRADFORD, D.O., M.Sc.(Phys), Lecturer
ALBERT F. D'ALONZO, A.B., D.O., M.Sc.(Ost), Lecturer
ALBERT J. FORNACE, D.O., Lecturer
JOSEPH E. GILETTO, D.O., M.Sc.(Ost), Lecturer
JOSEPH V. KOEHLER, D.O., Lecturer
DOMINIC E. MARSICO, D.O., M.Sc.(Ost), Lecturer
MARVIN ROSNER, D.O., Lecturer

The Cardiovascular Training Grant Program is sponsored by a grant from the National Heart Institute, a division of the Public Health Service, U.S. Department of Health, Education and Welfare, to "establish, expand, improve or continue instruction in the prevention, diagnosis and treatment of cardiovascular diseases."

The program has didactic course hours as well as heart station teaching. Two educational cardioscopes, one at each hospital, make it possible for the student to hear heart sounds at the same time he views either the stethographic tracing of murmurs or any lead of the electrocardiogram on a cathode ray picture tube. With the addition of fifty electric stethoscopes, seventy students may now listen and view the cardioscope at one time. This is a valuable advance in the teaching of physical diagnosis of the chest.

Two cardiac simulators for computerizing heart sounds are available at the 48th Street Hospital and at Barth Pavilion. The student may tune in all types of murmurs and heart sounds at all levels of intensity.

Twelve heart models representing silhouette changes in the various heart diseases demonstrate by means of a photofluoro-demonstrator the appearance of the heart silhouette in any position at cardiac fluoroscopy.

Outstanding films in sound and color and a continually growing lantern slide library (now above 600 slides) implement the lectures. Books on cardiovascular disease are at each heart station. Important new volumes are placed in the college library upon publication.

The aim of the program is: (1) to improve the student's diagnostic acumen by stressing history taking, physical diagnosis, and its practical application in the heart station and at the bedside, (2) to emphasize preventive medicine as it applies to this field and (3) to teach rationalization in therapy as well as the details of management.

MENTAL HEALTH TRAINING

The Mental Health Training Program is a project financed largely by a grant-in-aid from the National Institute of Mental Health, a division of the Public Health Service, U.S. Department

of Health, Education and Welfare. The general purpose to be served under the grant is to provide increased undergraduate opportunity for practical experience in diagnostic and treatment methods in psychiatry.

PRE-DOCTORAL RESEARCH

Philadelphia College of Osteopathic Medicine maintains a program of research in a variety of fields, with major emphasis on a specific program of student research training. These efforts are supported in part by the Bureau of Research of the American Osteopathic Association. In addition to supporting certain projects which seem to be of special interest to the Osteopathic Profession, the Bureau supports a Student Research Training Program. The total research program of the College is under the general guidance and direction of the Director of Research and the Faculty Committee on Research.

Continuing Education

Continuing Education

Philadelphia College of Osteopathic Medicine conducts a program of postdoctoral courses designed to meet the needs of osteopathic physicians engaged in general practice, specialty practice or preparing for specialty certification.

The program in Postdoctoral Studies also includes rotating internships, residencies in various specialties, fellowships and a program leading to the degree of Master of Science.

ADMISSION REQUIREMENTS

Enrollment in each course is limited so that each student may obtain maximum instruction; therefore it is recommended that application be made as early as possible.

The minimum requirements for admission to postdoctoral courses are:

1. Graduation from a college of osteopathic medicine approved by the American Osteopathic Association and membership in the American Osteopathic Association.
2. Graduates of approved medical colleges must present evidence of comparable academic training and of having attained the same level of professional competence as graduates of approved colleges of osteopathic medicine.
3. A record of scholastic and clinical achievement indicative of his ability to benefit fully from postdoctoral study.

The minimum requirements for admission to internship are:

1. Graduation from a college of osteopathic medicine approved by the American Osteopathic Association and membership in the American Osteopathic Association.
2. A record of scholastic achievement indicative of his ability to benefit from the year of rotating internship.

The minimum requirements for admission to fellowships and residency in one of the various specialties are:

1. Graduation from a college of osteopathic medicine approved by the American Osteopathic Association and membership in the American Osteopathic Association.

2. Completion of an internship approved by the American Osteopathic Association.
3. A record of scholastic and clinical achievement indicative of ability to benefit fully from the fellowship or residency training program.

REGISTRATION AND PAYMENT OF FEES FOR POST-DOCTORAL COURSES

A registration fee of five dollars must accompany application for admission to postdoctoral courses.

To make a definite reservation, tuition must be paid in full upon notice of admission to postdoctoral courses. The registration fee or tuition will not be returned if the applicant fails to attend.

If it becomes necessary to cancel courses due to insufficient registration or other unforeseen circumstances, notification will be made two weeks in advance of the starting date and all fees will be refunded.

Tuition fees are specified in the description of each course.

All applications and inquiries concerning admission to postdoctoral courses should be addressed to the Office of the Dean, Philadelphia College of Osteopathic Medicine, 48th and Spruce Sts., Philadelphia, Penna. 19139.

PROGRAM LEADING TO MASTER OF SCIENCE DEGREE

Philadelphia College of Osteopathic Medicine conducts programs of study in clinical specialties leading to the Master of Science Degree. These programs are post-doctoral programs and are available only to those candidates who pursue programs in residence; that is, as residents, fellows or other full-time student category.

The minimum requirements for the degree of Master of Science in a clinical specialty are:

1. Graduation from a college of osteopathic medicine approved by the American Osteopathic Association and membership in the American Osteopathic Association.
2. Completion of an internship approved by the American Osteopathic Association.

3. A record of scholastic and clinical achievement indicative of ability to benefit fully from the required course of study.
4. Hold a full-time postdoctoral appointment—fellowship or residency—in Philadelphia College of Osteopathic Medicine.
5. Present to the faculty an acceptable original thesis based upon a research project. The subject and detailed plan of the research project must be submitted in writing for approval by the Dean, the Director of Postdoctoral Studies and the appropriate departmental chairman before the work is undertaken. Four copies of the thesis must be submitted in the required form.
6. Application for admission to a program leading to the degree of Master of Science must be made to the Dean not later than two academic years prior to the date the candidate expects to complete his work and to receive the degree.
7. Information concerning applications to the program and other aspects of the program may be obtained from the Dean's Office.

INTERNS**1971 - 1972**

- LANNUTTI, PAT ANTHONY, B.S., D.O.....Philadelphia, Pa.
Saint Joseph's College, P.C.O.M.
- PANTLE, PHILIP JOSEPH, B.S., D.O.....Broomall, Pa.
Temple University, P.C.O.M.
- SIMELARO, JOHN PETER, B.S., D.O.....Philadelphia, Pa.
Saint Joseph's College, P.C.O.M.

RESIDENTS**1971 - 1972**

- CRAGG, DAVID, B.S., D.O.—Radiology.....Philadelphia, Pa.
Villanova University, P.C.O.M.
- HARRIS, JAMES LINWOOD, B.S., D.O.—Surgery.....Philadelphia, Pa.
Guilford College, P.C.O.M.
- JAMA, ROBERT HAROLD, B.S., D.O.—Surgery.....Philadelphia, Pa.
University of South Carolina, P.C.O.M.
- KIRSCHNER, RONALD A., A.B., D.O.—ENT.....Philadelphia, Pa.
University College of New York University, P.C.O.M.
- MELHORN, NOEL LUTHER, B.S., D.O.—Radiology.....Media, Pa.
University of Pittsburgh, P.C.O.M.
- RODGERS, ROBERT J., B.S., D.O.—Radiology.....Philadelphia, Pa.
University of Notre Dame, C.C.O.M.
- STITZELL, WILLARD M., B.S., D.O.—Neurosurgery.....Cherry Hill, N.J.
Albright College, K.C.C.O.M.
- WILMER, RICHARD BARRY, B.A., D.O.—Pathology.....Philadelphia, Pa.
Temple University, K.C.C.O.M.

Commencement – June 1971

**Roster of Students
1971-1972**

D E G R E E S**FOUNDERS DAY — January 23, 1971****DOCTOR OF LITERATURE****DAVID H. KURTZMAN, B.S., M.A., Ph.D.****SECRETARY OF EDUCATION****COMMONWEALTH OF PENNSYLVANIA****EIGHTIETH COMMENCEMENT — June 6, 1971****DOCTOR OF LAWS****THE HONORABLE JAMES A. BYRNE****MEMBER OF CONGRESS****DOCTOR OF HUMANE LETTERS****ROBERT E. YOUNG****EXECUTIVE ASSISTANT TO SENATOR GEORGE N. WADE****DOCTOR OF HUMANITIES****FREDERIC K. MILLER****COMMISSIONER FOR HIGHER EDUCATION****COMMONWEALTH OF PENNSYLVANIA**

AWARDS — 1971

The Christian R. and Mary F. Lindback Foundation Award for Distinguished Teaching

NICHOLAS S. NICHOLAS, D.O.

Clinical Professor—Osteopathic Principles and Practice

ALVIN ROSEN, A.B., M.A., D.O.

Associate—Internal Medicine

The Christian R. and Mary F. Lindback Foundation Scholarship Awards

Class of 1972

LAWRENCE D. KRAMER

G. BRUCE MILES

Class of 1973

RONALD J. ELLIS

Class of 1974

DAVID H. CLYMER

The Dean's Award.....WILLIAM MARION NOVELLI

The Alumni Association Award.....ELVIN LESTER MARTIN

WILLIAM MARION NOVELLI

The Public Health Award.....BARBARA JUNE MICHALAK

The Alice Snyder Barth Memorial Award

PAT ANTHONY LANNUTTI

The Dorothy Jean Sivitz, D.O., Memorial Award

ROBERT MARC COHEN

PATRICK JAMES MCANDREW

The John H. Eimerbrink, D.O., Memorial Award

JOHN RYLAND COVINGTON, JR.

The Belle B. and Arthur M. Flack Memorial Award

JESSE VITO LoMONACO

The Harold C. Waddel, D.O., Memorial Award

JOHN MANSELL GOODING

Honorable Mention: JOHN RYLAND COVINGTON, JR.

The Harold L. Bruner, D.O., Memorial Award

ALAN R. SANDMAN

The Wilbur P. Lutz, D.O., Memorial Award

RONALD STUART LUBER

Honorable Mention: JOHN RYLAND COVINGTON, JR.

The Obstetrical Award.....ERROL SCOTT LEADERMAN

The Frederic H. Barth Award.....GRANT EDWIN ATWELL, II

RUDOLPH HAROLD BORGERSSEN

The Sophia Freiter Barth Award.....STEPHEN STEVENSON FEDEC

The Kenneth L. Wheeler, D.O., Memorial Award

VICTOR HARLEY GREGORY

The Homer Mackey Memorial Award.....JESSE VITO LoMONACO

DOCTOR OF OSTEOPATHY

CLASS OF 1971

ABBOTT, ALDEN WAYNE	Waltham, Mass.
A.B., Bowdoin College	
ALLORA, VINCENT GERALD	Bloomfield, N.J.
B.S., Upsala College	
ATWELL, GRANT EDWIN, II	Meyersdale, Pa.
A.B., Bucknell University	
BAILOR, FRED RALPH, JR.	Lewistown, Pa.
B.S., Shippensburg State College	
BASSO, NICHOLAS VITO	Brooklyn, N.Y.
B.S., Saint Francis College	
BEAMAN, RODERICK THOMAS	Bayside, N.Y.
A.B., New York University	
BORGERSSEN, RUDY H.	Philadelphia
A.B., Temple University	
BRANDOFF, NEAL IRWIN	Philadelphia
A.B., Temple University	
BROOKMAN, ROBERT HORTON	Yeadon, Pa.
A.B., Franklin and Marshall College	
BROWN, DAVID C.	Erie, Pa.
A.B., State University of New York at Buffalo	
CAMPANILE, RICHARD J.	Lansdowne, Pa.
B.S., Villanova University	
COHEN, ROBERT MARC	Trenton, N.J.
A.B., Rutgers—The State University	
CORBETT, LAWRENCE PHILIP	Rockville Centre, N.Y.
A.B., College of the Holy Cross	
COSTINO, JOHN GIRARD, JR.	Haddon Heights, N.J.
A.B., Rutgers—The State University	
COVINGTON, JOHN RYLAND, JR.	Philadelphia
B.S., Saint Joseph's College	
CUNNINGHAM, MICHAEL JAMES	Oil City, Pa.
B.S., Saint Francis College	
DAINOFF, GEORGE B.	Lewisburg, Pa.
A.B., Bucknell University	
DALSEY, MICHAEL EDWARD	Collingswood, N.J.
B.S., Saint Joseph's College	
DALTON, LEO BERNARD, JR.	Glenolden, Pa.
B.S., Saint Joseph's College	
DEMURO, PETER JOSEPH	Hasbrouck Heights, N.J.
A.B., Rutgers—The State University	

DEPUTRON, DAVID C., JR.	Upper Darby, Pa.
B.S., Saint Joseph's College	
DEVONSHIRE, GLORIA JEAN	Drumore, Pa.
A.B., Asbury College	
DOUGHERTY, JOHN EDWARD, III	Havertown, Pa.
B.S., Lebanon Valley College	
EATOUGH, PHILIP BRADLEY	West Chester, Pa.
B.S., Juniata College	
EISENBERG, BARRY IRVING	Philadelphia
A.B., Philadelphia College of Art	
FARMER, WAYNE CHARLES	Upper Darby, Pa.
B.S., Southwest Missouri State College	
R.P.T., University of Kansas	
FAUNCE, HOWARD FRANKLIN, III	Abington, Pa.
B.S., Marietta College	
FEDEC, STEPHEN	Gladwyne, Pa.
B.S. in Pharm., Temple University School of Pharmacy	
FELDMAN, LARRYE MICHAEL	Jenkintown, Pa.
A.B., Temple University	
FELSKI, EMIL F. M.	Lorain, Ohio
A.B., West Virginia University	
FESAK, DAVID M.	Drexel Hill, Pa.
B.S., The Pennsylvania State University	
FISHSTEIN, MARK B.	Philadelphia
A.B., Temple University	
FOSCHETTI, FELIX PHILIP, JR.	Allentown, Pa.
B.S., University of Dayton	
GOLDBERG, DAVID DALE	Park Manor, Pa.
B.S., Moravian College	
GOODING, JOHN M.	Bangor, Me.
University of Maine	
GRATZ, IRWIN	Philadelphia
Philadelphia College of Pharmacy and Science	
GREGORY, VICTOR HARLEY	Philadelphia
B.S., Michigan State University	
HAMSTRA, GERALD ALAN	Grand Rapids, Mich.
B.S., Calvin College	
HAUG, WILLIAM ALLEN, III	Limerick, Pa.
A.B., Miami University	
HEGGAN, FREDERICK WAYNE	Blue Anchor, N.J.
A.B., Eastern Baptist College	
HERSHFIELD, ALVIN TED	Brooklyn, N.Y.
A.B., University of Bridgeport	

KENDALL, DAVID J.	KINGSTON, Pa.
B.S. in Pharm., Fordham University College of Pharmacy	
KLINE, LAWRENCE EDWARD	Wilkes-Barre, Pa.
A.B., Temple University	
KNAPP, RICHARD DAVID	South Orange, N.J.
B.S., Fairleigh Dickinson University	
KRATZER, KENNETH EARL	McClure, Pa.
A.B., Susquehanna University	
KUPPERSTEIN, PAUL MICHAEL	Philadelphia
A.B., University of Pennsylvania	
LANNUTTI, PASQUALE ANTHONY	Philadelphia
B.S., Saint Joseph's College	
LEADERMAN, ERROL SCOTT	Mount Vernon, N.Y.
A.B., Harpur College, State University of New York	
LO MONACO, JESSE VITO	Philadelphia
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
LUBER RONALD STUART	Camden, N.J.
A.B., Rutgers—The State University	
MCANDREW, PATRICK JAMES	Vandling, Pa.
B.S., Villanova University	
MCLAY, WILLIAM F.	Cherry Hill, N.J.
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
MARTIN, ELVIN L.	Philadelphia
B.S., Eastern Mennonite College	
MATSKO, ROBERT PAUL	Harrisburg, Pa.
B.S., Lebanon Valley College	
MAUCERI, RICHARD ALLEN	Jericho, N.Y.
B.S., St. John's University	
MICHALAK, BARBARA JUNE	Camden, N.J.
A.B., Rutgers—The State University; M.P.H., University of North Carolina	
NIPPLE, JOHN HOWARD	Harrisburg, Pa.
B.S., Juniata College	
NOVELLI, WILLIAM M.	Media, Pa.
B.S., Ohio State University; M.Ed., Kent State University	
OCKRYMIEK, DOUGLAS A.	Irvington, N.J.
B.S., Roanoke College	
O'GARA, MICHAEL T.	Newark, N.J.
A.B., Seton Hall University	
PACKIN, GARY STEVEN	West Orange, N.J.
B.S., Muhlenberg College	

PANTLE, PHILIP JOSEPH	Broomall, Pa.
B.S. in Pharm., Temple University School of Pharmacy	
PAPP, GERARD MICHAEL	Trenton, N.J.
A.B., La Salle College	
PARCINSKI, RICHARD E.	Cambridge Springs, Pa.
B.S., Alliance College	
PETERS, CHRISTIAN KLINE, JR.	Allentown, Pa.
A.B., Valparaiso University	
PINKERTON, RICHARD ANTHONY	Beaver Falls, Pa.
B.S. in Pharm., Duquesne University School of Pharmacy	
PIPER, GEORGE E., JR.	McVeytown, Pa.
B.S., Davidson College	
PULICH, JOHN JOSEPH	Media, Pa.
B.S., PMC Colleges	
PUSKAS, THOMAS J.	Fullerton, Pa.
B.S., Muhlenberg College	
REICH, NORBERT ERNST	New York, N.Y.
B.S., Long Island University	
RENZA, RICHARD ALLEN	Collingswood, N.J.
A.B., Gettysburg College	
ROBBINS, DARRYL ANDREW	Haddonfield, N.J.
B.S., Dickinson College	
ROBBINS, GERALD FRED	New York, N.Y.
B.S., City College of New York	
ROMAN, STANLEY W.	Philadelphia
A.B., Temple University	
ROSAN, JAY RICHARD	Havertown, Pa.
B.S., Albright College	
ROTHMAN, SIMON	Philadelphia
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
SACHER, HOWARD LAWRENCE	North Woodmere, N.Y.
A.B., Queens College	
SANDMAN, ALAN RICHARD	Delanco, N.J.
A.B., University of Pennsylvania	
SAUERS, PAUL W.	Philadelphia
A.B., La Salle College	
SCHULTZ, CHARLES R.	Philadelphia
A.B., Temple University	
SCHWARTZBERG, SHELDON	Philadelphia
A.B., Temple University	
SESSO, DONALD JOHN	Philadelphia
B.S., Villanova University	
SHERIDAN, JOSEPH FRANCIS	Philadelphia
A.B., La Salle College	
SIMELARO, JOHN PETER	Philadelphia
B.S., Saint Joseph's College	

SIMS, LEWIS JOHN	New Boston, Pa.
B.S., The Pennsylvania State University	
SLOTKIN, BARNEY ALAN	Philadelphia
A.B., Temple University	
SMITH, LEON	Muskegon, Mich.
Muskegon County Community College; Wayne State University	
SPEER, ROBERT R.	Carnegie, Pa.
B.S., Baldwin-Wallace College	
STEPANUK, MAXWELL, JR.	Philadelphia
A.B., Temple University	
STRAUSS, SAMUEL	Philadelphia
A.B., Temple University	
STREET, HENRY H.	Southampton, N.Y.
B.S., Cornell University	
STRUSE, WILLIAM PATCHELL	Phoenixville, Pa.
A.B., Houghton College	
TAYLOR, PAUL WEBSTER	West Springfield, Mass.
A.B., St. Anselm's College	
TECAU, ROBERT L.	Youngstown, Ohio
B.S., Ohio University	
TERRANOVA, ROBERT JOHN	Philadelphia
A.B., Temple University	
WARREN, ROY WALTER, JR.	Johnstown, Pa.
B.S., University of Pittsburgh	
WEINBERGER, GERALD	Brooklyn, N.Y.
A.B., Brooklyn College	
WEINBLATT, HOWARD ALAN	Baltimore, Md.
A.B., Western Maryland College	
WENTLING, WILLIAM ORVA	Erie, Pa.
B.S., The Pennsylvania State University	
WERTHEIMER, IRA STEVEN	Philadelphia
A.B., Gettysburg College	
WHITE, MERRITT BURKE	Southampton, N.Y.
B.S., University of Delaware	
WOLKOV, JAY M.	Drexel Hill, Pa.
A.B., Franklin and Marshall College	
YARDUMIAN, JOHN	Drexel Hill, Pa.
B.S., Roanoke College	
ZEBOOKER, EDWARD BERNARD	Philadelphia
B.S., Albright College	
ZINNAMOSCA, JOHN B.	Meadville, Pa.
B.S., Allegheny College	
ZIANTS, STEPHEN J.	Cherry Hill, N.J.
B.S., The Pennsylvania State University	

CLASS OF 1972

ADLEN, MARK E.	Philadelphia
A.B., Temple University	
ADLER, LEE MARTIN	Drexel Hill, Pa.
B.S. in Pharm., Rutgers—The State University	
ANTOSEK, LOUIS EDWARD	Salisbury, N.C.
B.S., Belmont Abbey College	
AUERBACH, ROBERT STEPHEN	Philadelphia
B.S., Albright College	
AZNEER, JAY BARRY	Youngstown, Ohio
A.B., Youngstown State University	
BECK, JONATHAN EDWARD	Merion, Pa.
B.S., Bethany College	
BERG, CHARLES JACKSON	Reynoldsville, Pa.
B.S., The Pennsylvania State University	
BERNDT, DAVID L.	Toledo, Ohio
University of Toledo	
BIONDI, ROBERT JOHN	Camden, N.J.
B.S., Saint Joseph's College	
BLACKSMITH, JAMES EDWARD	Lemoyne, Pa.
B.S., Lock Haven State College	
BLOCK, SEYMOUR H.	Philadelphia
A.B., George Washington University	
BLOCKSOM, JOHN PENTON	Barrington, R.I.
A.B., Barrington College	
BORDEN, STANLEY JOHN	Clark, N.J.
A.B., Seton Hall University	
BOYLE, BRIAN JOSEPH	Philadelphia
B.S., Saint Joseph's College	
BRUNER, JEFFREY MARC	Huntingdon Valley, Pa.
A.B., Temple University	
BURNSTEIN, STEPHEN L.	Philadelphia
A.B., Temple University	
BYERS, DAVID ROY	Marietta, Pa.
B.S., Elizabethtown College	
BYRNES, RICHARD DENNIS	Yardley, Pa.
B.S., Saint Joseph's College	
CALLAHAN, MICHAEL EDWARD	York, Pa.
B.S., Ursinus College	
CARLSON, JOHN COMPTON	Bloomfield, N.J.
B.S., Fairleigh Dickinson University	

CASS, CLEANNE	Ligoneir, Pa.
B.S., Grove City College	
CICUTO, ROBERT ALLEN	Lowellville, Ohio
B.S., St. Bonaventure University	
COHEN, WILLIAM LOUIS	Havertown, Pa.
A.B., University of Pennsylvania	
COLEMAN, HENRY JOSEPH	Trenton, N.J.
B.S. in Pharm., Temple University School of Pharmacy	
COOPER, JOHNNY O'NEAL	Houston, Tex.
B.S. in Pharm., The University of Houston; B.S., The Univ. of Houston	
COOPERSTEIN, MARK STEVEN	Philadelphia
A.B., Temple University	
COPPOLA, RICHARD MARTIN	Philadelphia
A.B., La Salle College	
CROFF, WILLIAM JOHN	Havertown, Pa.
B.S., Philadelphia College of Pharmacy and Science	
CURRIE, THOMAS EDWARD	North Miami Beach, Fla.
B.S., Florida Atlantic University	
DAVIS, DAVID JOHN, II	Delaware Water Gap, Pa.
A.B., Temple University	
DOVBERG, NORMAN JOSEPH	Philadelphia
B.S., Union College	
DOWNS, CAROLYN RUTH	Levittown, Pa.
B.S., Beaver College	
EPPLEY, PHILIP WALTER, II	York, Pa.
B.S., Albright College	
ESHLEMAN, JAMES EDWARD	East Berlin, Pa.
B.S., Elizabethtown College	
FABIAN, DENNIS FRANCIS	Haddonfield, N.J.
B.S., Saint Joseph's College	
FASANO, CHARLES PETER	Lock Haven, Pa.
B.S. in Pharm., Temple University School of Pharmacy	
FINKEL, PAUL HAROLD	Philadelphia
A.B., Temple University	
FLYNN, PATRICK J.	Philadelphia
A.B., La Salle College	
FORSBERG, GARY ROY	Sharon, Pa.
A.B., Case Western Reserve University	
FOSTER, DONALD BRUCE	Monkton, Md.
B.S., Wheaton College	
FULLER, RAYMOND LYNWOOD, JR.	Westville, N.J.
A.B., Rutgers—The State University	

GANAN, KEAN SERGE	New Milford, N.J.
B.S., Michigan State University	
GARFIELD, GARY CHARLES	Woodmere, N.Y.
A.B., Temple University	
GARFINKLE, JEROME ALLAN	Philipsburg, Pa.
B.S., Philadelphia College of Pharmacy and Science	
GIARDINA, ANTHONY IGNATIUS	Pittston, Pa.
B.S. in Pharm., Temple University School of Pharmacy	
GIBSON, GEORGE WESLEY	Detroit, Mich.
B.S., University of Detroit; M.A., University of Detroit	
GILDERMAN, LARRY I.	Philadelphia
A.B., Temple University	
GORDON, DANIEL SCOTT	Reynoldsville, Pa.
B.S., Lock Haven State College; P.T., University of Pittsburgh	
GORIN, ROY LEONARD	Philadelphia
A.B., Temple University	
GROVE, D. NEIL	Reading, Pa.
A.B., Lafayette College	
GUTOWICZ, MATTHEW FRANCIS, JR.	Philadelphia
A.B., Temple University	
HARDIN, JAMES CHESTER	Aliquippa, Pa.
B.S. in Pharm., Ohio Northern University	
HARMAN, LEONARD PAUL	Philadelphia
Philadelphia College of Textiles and Science	
HASH, CHARLES W.	Thomasville, Pa.
B.S., Elizabethtown College	
HENDERSON, CAROL JEAN	Egg Harbor City, N.J.
A.B., Rutgers—The State University	
HERRON, ROBERT THOMAS	Babylon, N.Y.
B.S., St. John's University	
HIGBY, RAYMOND FREDRICK	Cranston, R.I.
B.S., University of Rhode Island	
HOFFMAN, EDWARD	Philadelphia
Temple University	
IVKER, ROBERT SIDNEY	Jenkintown, Pa.
A.B., Temple University	
JACOBS, DANNY	Philadelphia
B.S. in Pharm., Temple University School of Pharmacy	
JOHANSON, MICHAEL GEORGE	Detroit, Mich.
B.S., PMC Colleges	

KEHLER, JAMES GRANT	Woodbury, N.J.
B.S., College of Emporia; M.S., Kansas State Teachers College	
KLEINBERG, HARVEY SHELDON.....	Philadelphia
B.S., The Pennsylvania State University	
KNIAZ, JOHN LEONARD	Brookline, Mass.
B.S. in Pharm., Massachusetts College of Pharmacy	
KNIGHT, THURMOND W., JR.	Lake Park, Fla.
B.S., Florida State University	
KRAMER, LAWRENCE DONALD	Allentown, Pa.
A.B., University of Rochester	
KREBS, MICHAEL STEWART	Edmonds, Wash.
University of Washington	
KUNKEL, ALAN ROBERT	Shiremanstown, Pa.
A.B., Gettysburg College	
LANPHEAR, CLAYTON DEWEY, III	Edgewood, R.I.
A.B., Nasson College	
LARKINS, ROBERT	Teeaneck, N.J.
A.B., Lincoln University; B.S., New York University	
LENTZ, EDWARD HENRY	Lykens, Pa.
St. Francis College	
LISTWA, HOWARD MORTON	Philadelphia
A.B., Temple University	
LOWENSTEIN, MITCHELL BRIAN	Philadelphia
B.S., Ursinus College	
MCCAULEY, FLOYCE D.	Philadelphia
B.S., University of Pittsburgh	
MCDONNELL, BERNARD CHARLES	Glenside, Pa.
A.B., Temple University	
MCGORRY, DENNIS MICHAEL	Allentown, Pa.
A.B., Rutgers—The State University	
MANUS, ARTHUR HENRY	Philadelphia
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
MEYERS, FRANCIS EDWARD	Pittsburgh, Pa.
B.S., University of Dayton	
MILES, GEORGE BRUCE	Easton, Pa.
A.B., Wittenberg University	
MILLER, MICHAEL IRA	Philadelphia
A.B., La Salle College	
MILLER, ROBERT ALAN	Plymouth, Mich.
B.S., University of Michigan	
MILLER, ROBERT DENNIS	Lebanon, Pa.
Millersville State College	

MILLER, WILLIAM BERNARD	Philadelphia
B.S., The Pennsylvania State University; M.S., Villanova University	
MINTEER, DONALD WESLEY	Worthington, Pa.
B.S., Westminster College	
MISKIEL, EDWARD JOSEPH, JR.	Morrisville, Pa
A.B., Villanova University	
NARRAWAY, ALFRED IAIN	Dunkirk, N.Y.
A.B., State University of New York at Fredonia	
NODVIK, JOAN M.....	Cleveland, Ohio
B.S., West Liberty State College; P.T., Ohio State University	
NORTHUP, JEFFREY CARLETON.....	Lansdowne, Pa.
A.B., Kenyon College	
PATTERSON, JAMES THOMAS, JR.	Bethlehem, Conn.
B.S., University of Miami	
PISANO, DOMENIC	Philadelphia
A.B., Temple University	
PITONE, JOSEPH MICHAEL	Philadelphia
B.S., Saint Joseph's College	
POLLOCK, NORMAN	Philadelphia
A.B., Temple University	
PURSE, RICHARD MUNRO	Narberth, Pa.
B.S., Bucknell University; M.S., The Pennsylvania State University	
RASP, MARTIN THOMAS	Buffalo, N.Y.
A.B., State University of New York at Buffalo	
REPASKY, SUZANNE BARBARA ELIZABETH	Philadelphia
A.B., Temple University	
REPICI, ANTHONY RAPHAEL	Philadelphia
B.S., Saint Joseph's College	
RICELY, JAMES CARLE	Fort Lauderdale, Fla.
B.S., Stetson University	
RISSMILLER, RICHARD WILLIAM	Hatfield, Pa.
B.S., Muhlenberg College	
RUBIN, CARL S.	Ardmore, Pa.
A.B., The Pennsylvania State University	
SALTZMAN, DAVID BARRY	Philadelphia
A.B., Temple University	
SAMANO, GREGORY PAUL	Darby, Pa.
B.S., Villanova University	
SCHWARTZMAN, BARRY SAUL	Philadelphia
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
SEIDELMANN, FRANK ERICK	Cherry Hill, N.J.
B.S., Elizabethtown College	

SENFT, WAYNE HAROLD	York, Pa.
B.S., The Pennsylvania State University	
SHERMAN, NEAL	Rego Park, N.Y.
A.B., New York University	
SHOEMAKER, JAMES RICHARD	Bloomsburg, Pa.
B.S., Albright College	
SILLAMAN, JAMES WILLARD	Latrobe, Pa.
B.S., Allegheny College	
SIREN, RICHARD LLOYD	Philadelphia
B.S. in Pharm., Temple University School of Pharmacy	
SPECTOR, PAUL MITCHELL	Philadelphia
A.B., Temple University	
SPINAPOLICE, RONALD XAVIER	Montvale, N.J.
B.S., Fairleigh Dickinson University	
SPIRO, ARTHUR WALTER	Berlin, N.J.
B.S., Temple University	
STEWART, JOSEPH H., III	Waynesburg, Pa.
A.B., West Virginia University	
STRUNK, HERBERT ALLEN, JR.	Easton, Pa.
A.B., Gettysburg College	
SWENSKI, RICHARD JOHN	Wilkes-Barre, Pa.
B.S., King's College	
SZCZYGIEL, GERARD WALTER	Philadelphia
B.S., Alliance College	
SZUTOWICZ, MICHAEL PAUL	Berwick, Pa.
B.S., Mount Saint Mary's College	
TAWEEL, JOHN JOSEPH	Trenton, N.J.
B.S., Rider College	
TRUSSO, RUSSELL ANTHONY	Fredonia, N.Y.
A.B., State University of New York at Fredonia	
VARNER, LAWRENCE NORMAN	Johnstown, Pa.
A.B., Washington and Jefferson College	
WARD, DENNIS JAMES	Brookville, Ohio
B.S., Ohio State University	
WAXMAN, FRANK	Philadelphia
A.B., University of Pennsylvania	
WEISS, E. NORMAN	Upper Darby, Pa.
A.B., Temple University; B.S., in Pharm., Philadelphia College of Pharmacy and Science	
WOODWORTH, RONALD STEARNS	North Bennington, Vt.
B.S., Springfield College; M.A., Columbia University	
WYSZYNSKI, EUGENE JONATHAN	Philadelphia
B.S., University of Dayton	
ZAZZO, LAWRENCE JOSEPH	Trenton, N.J.
B.S., Saint Joseph's College	

CLASS OF 1973

ADAMS, JOHN DONALD, JR.	Harrisburg, Pa.
B.S., Dickinson College	
ADELIZZI, RAYMOND ALFRED	Philadelphia
B.S., Saint Joseph's College	
ALEXANDER, THEODORE JOSEPH	Youngstown, Ohio
B.S., Ohio State University	
AMARNICK, CLAUDE BARRY	Penn Valley, Pa.
A.B., University of Pennsylvania	
APPLE, HARVEY VICTOR	Warren, Ohio
Ohio State University	
AXE, ALLEN L.	Philadelphia
B.S., Temple University	
BACHOVE, STEPHEN WARREN	Philadelphia
A.B., Temple University	
BOORSTEIN, JERRY	Cherry Hill, N.J.
B.S., Bucknell University	
BROOKS, JOHN MICHAEL	Clarion, Pa.
Kent State University	
BULLMAN, GERALD CHRISTOPHER	Drexel Hill, Pa.
B.S., Saint Joseph's College	
BURGER, HARRY RUSSELL	Media, Pa.
B.S., Elizabethtown College	
CARBO, ANTHONY PASQUALE	Drexel Hill, Pa.
B.S., Saint Joseph's College	
CARIN, STEVEN GEORGE, JR.	Elyria, Ohio
B.S. in Pharm., Ohio Northern University	
CHERNICOFF, DAVID PAUL	Levittown, Pa.
A.B., University of Rochester	
CHERVENAK, ALBERT DOUGLAS	Highland Park, N.J.
A.B., Franklin and Marshall College	
CHIESA, JOHN CYRIL	West New York, N.J.
B.S. in Pharm., Columbia University College of Pharmaceutical Science	
CROWELL, ROBERT FREDERICK	Philadelphia
A.B., The Pennsylvania State University	
DEIBERT, PHILIP WILLIAM	Huntingdon Valley, Pa.
A.B., Temple University	
DENNY, ROBERT CARR	Carney's Point, N.J.
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
DETWEILER, EDWIN, JR.	Lansdale, Pa.
B.S., University of Dayton	

DIRNBERGER, THOMAS JOHN	Coaldale, Pa.
B.S. in Pharm., University of Maryland School of Pharmacy	
DRIESBACH, DAVID RUSSELL	Shillington, Pa.
B.S., Ursinus College	
ELLIS, RONALD JOSEPH	Brookhaven, Pa.
A.B., Temple University	
ENDE, THEODORE	Brooklyn, N.Y.
A.B., Brooklyn College	
ERWIN, ROBERT CURTIS, JR.....	Emmaus, Pa.
B.S., Weber State College	
EWLES, DANA ADRIAN	Garden City, Mich.
B.S., Wayne State University	
FANTAUZZO, ALAN ANTHONY	Rochester, N.Y.
B.S., St. Bonaventure University	
FAUST, HARRY LOUIS, JR.	Houston, Texas
B.S., in Pharm., University of Houston College of Pharmacy	
FEIN, HOWARD KENNETH	Bala Cynwyd, Pa.
A.B., Temple University	
FENERTY, WILLIAM DENIS	Bala Cynwyd, Pa.
B.S., Saint Joseph's College	
FERRETTI, ANTHONY JOHN	Erie, Pa.
B.S., Gannon College	
FERRETTI, JOHN MICHAEL	Erie, Pa.
Gannon College	
FIGLIN, JOSHUA MARK	Hazleton, Pa.
A.B., The Pennsylvania State University	
FISHER, GARY ALAN	Media, Pa.
A.B., Washington and Jefferson College	
FRIEDMAN, MARILYN LORETTA	Brooklyn, N.Y.
B.S., William Smith College	
GALLER, STEVEN GEORGE	East Meadow, N.Y.
B.S., Fairleigh Dickinson University	
GINSBERG, DAVID	Philadelphia
A.B., Temple University	
GLASS, LAWRENCE	Philadelphia
A.B., Temple University	
GOLDSTEIN, LEE HARRIS	Merion, Pa.
B.S., Upsala College	
GRAHAM, DENNIS CLARK	Mexico, Pa.
B.S., Juniata College	
GREENSTEIN, RICHARD BARRY	Philadelphia
A.B., Temple University	

HARTMANN, RUPERT CARL, II	Trenton, N.J.
B.S., Mount Saint Mary's College	
HATHAWAY, KENNETH J.	Peace Dale, R.I.
B.S., University of Rhode Island	
HILLIARD, JANET KAREN	Sharpsville, Pa.
A.B., Thiel College	
HINDERER, JON BARRY	Philadelphia
B.S., Maryville College	
HINKLE, BRADFORD RICHARD	Gloucester, N.J.
A.B., Rutgers—The State University	
HONDERICK, TIMOTHY LOINE	Miami, Fla.
University of Miami	
HORWITZ, JEROME MARK	Philadelphia
B.S., City College of New York	
ILLFELDER, MARK ALLEN	Dumont, N.J.
B.S., University of Pittsburgh	
JAFFE, MARC ERIC	Jenkintown, Pa.
B.S., Oglethorpe College	
JENSEN, JOHN MARTIN	Lindenhurst, N.Y.
A.B., Adelphi University	
KAPLAN, DANIEL BRUCE	Philadelphia
A.B., Temple University	
KATTELMAN, MARC	Bala Cynwyd, Pa.
B.S., Marietta College	
KEAGLE, DOUGLAS LEE	West Newton, Mass.
A.B., Northeastern University	
KITEI, FRANKLIN DAVID	Philadelphia
A.B., Gettysburg College	
KOGAN, BARRY ELLIOTT	Philadelphia
A.B., Temple University	
KOMANSKY, HENRY JOSEPH	Philadelphia
A.B., La Salle University	
KRACHMAN, DONALD ALAN	Philadelphia
B.S., Temple University	
KREIN, BARRY M.	No. Massapequa, N.Y.
B.S., Adelphi University	
LABACZEWSKI, ROBERT JOSEPH	Camden, N.J.
A.B., Rutgers—The State University	
LACAVERA, JOSEPH A.	Elmer, N.J.
A.B., University of Pennsylvania	
LAGANELLA, DOMINIC J.	Bristol, Pa.
A.B., Temple University	

LAZOR, JAMES ANDREW	Sharon, Pa.
B.S., John Carroll University	
LEE, JAMES THOMAS	Levittown, Pa.
B.S., University of Maryland	
LEHNERT, RICHARD LEE	Floral Park, N.Y.
B.S., St. John's University	
LEVIN, DONALD M.	Philadelphia
B.S., University of Pittsburgh	
LEVINE, ALAN	Philadelphia
B.S.M.E., Drexel Institute of Technology	
LEVY, STUART DAVID	Philadelphia
B.S. in Pharm., Temple University School of Pharmacy	
LIBRIZZI, RONALD JOSEPH	Milmont Park, Pa.
B.S., Saint Joseph's College	
LOBACZ, FRANK MICHAEL	East Islip, N.Y.
B.S., University of Dayton	
LOPRESTI, ANTHONY JOSEPH	Philadelphia
B.S., Drexel Institute of Technology	
LUDERER, ROBERT CARL	Cincinnati, Ohio
B.S., Westminster College	
LUTINSKI, RICHARD FRANK	Harveys Lake, Pa.
B.S., King's College	
McCAUGHEY, BRIAN GEORGE	Cape May, N.J.
B.S., Thiel College	
MC LAUGHLIN, JOHN PATRICK	Trenton, N.J.
A.B., La Salle College	
MADZELAN, CHESTER JOSEPH	Chester, Pa.
B.S., PMC Colleges	
MARON, JEFFREY JOEL	Asbury Park, N.J.
A.B., The George Washington University	
MATTLEMAN, JOEL HARRIS	Philadelphia
B.S., Saint Joseph's College	
MAYBERRY, JOSEPH JAMES	Morton, Pa.
A.B., Villanova University	
MIDGLEY, JOHN C.	Newtown Sq., Pa.
A.B., Gettysburg College	
MILLER, DAVID JOSEPH	Philadelphia
A.B., Temple University	
MILLER, WILLIAM HARTMAN	Wormleysburg, Pa.
B.S., Lebanon Valley College	
MYERS, STEPHEN ALAN	Philadelphia
B.S., Tulane University	

OLEX, STEPHEN THOMAS	Wilkes-Barre, Pa.
B.S., King's College	
OLIVER, FRANCIS HUGH	Plymouth, Pa.
A.B., Wilkes College	
PANICCO, RICHARD JOHN	Pittsburgh, Pa.
B.S., University of Dayton	
PAYTON, J. JOSEPH	Vermilion, Ohio
A.B., Wittenberg University	
PICCONE, BRUCE ROBERT	Philadelphia
B.S., The Pennsylvania State University	
PINO, JOHN ANTHONY	Hammonton, N.J.
A.B., Rutgers—The State University	
PLANO, VINCENT FRANCIS	Philadelphia
B.S., Villanova University	
PLATT, ARTHUR STEPHEN	West Orange, N.J.
A.B., Bloomfield College	
PLUMERI, PETER ANTHONY	Trenton, N.J.
A.B., Rutgers—The State University	
PRITCHARD, JAMES ROBERT	Bay Village, Ohio
B.S., The Ohio State University	
PROMISLOFF, ROBERT ALAN	Philadelphia
A.B., Temple University	
PURNER, WILLIAM MILTON, JR.	Sharon Hill, Pa.
B.S., Villanova University	
RAINEY, RALPH GARY	Green Ridge, Pa.
B.S., PMC Colleges	
RAPP, THOMAS LYNN	Dayton, Ohio
A.B., The Ohio State University	
RAUB, DANIEL JOSEPH	Greenville, Pa.
B.S., Bethany College	
RIKER, SYLVAN HOWARD	Union City, N.J.
B.S., Michigan State University	
RITTENOUR, ROBERT MARK	Dawson, Pa.
A.B., Washington and Jefferson College	
ROGOVE, HERBERT JAY	Philadelphia
B.S., Albright College	
ROSENBERG, ROBERT STEVEN	New York, N.Y.
A.B., New York University	
ROSENFIELD, RONALD NORMAN	Philadelphia
A.B., Temple University	
ROSS, DAVID EUGENE	Norwalk, Ohio
A.B., Miami University	

SADEK, HENRY	Philadelphia
A.B., Kansas State University	
SALTUS, GARY LEONARD	Fort Lauderdale, Fla.
B.S., Florida Atlantic University	
SCHNAPF, DONALD JEFFREY	Willingboro, N.J.
A.B., Ithaca College	
SCHWARTZ, JERROLD STEPHEN	Philadelphia
University of Pennsylvania	
SCOTT, ROBERT CHARLES	Columbus, Ohio
A.B., Hanover College	
SEARFOSS, EUGENE PAGET, JR.	Broomall, Pa.
B.S., Ursinus College	
SEIDMAN, LARRY SHELDON	Philadelphia
A.B., Temple University	
SHAY, WILLIAM	Philadelphia
B.S., Albright College	
SHORE, ERIC EUGENE	Philadelphia
B.S., PMC Colleges	
SLAVIN, MICHAEL JEFFREY	Philadelphia
B.S., Fairleigh Dickinson University	
SMERICK, ELLEN FRANTZ	Philadelphia
A.B., Temple University	
SMITH, DANIEL JOSEPH	Abington, Mass.
B.S., Massachusetts State College at Bridgewater	
SMITH, JOHN PETER	Washingtonville, N.Y.
A.B., Barrington College	
SNYDER, ALLAN ROBERT	Philadelphia
A.B., Temple University	
SPINAPOLICE, JOSEPH ANTHONY	Riverdale, N.J.
B.S., City College of New York	
STABILE, MARK LOUIS.....	Sharon, Pa.
A.B., Youngstown State University	
STEEL, KENNETH FREDERICK	Fort Lauderdale, Fla.
A.B., Florida Atlantic University	
STERNER, JOHN PAUL	Coplay, Pa.
B.S. in Pharm., Temple University School of Pharmacy	
STEVENS, JOHN S., JR.	Allentown, Pa.
B.S. in Pharm., Temple University School of Pharmacy	
STUKA, ANDREW JOHN	Drexel Hill, Pa.
B.S., King's College; M.S., West Virginia University	
SULMAN, RICHARD D.	Cherry Hill, N.J.
B.S. in Pharm., Temple University School of Pharmacy	

THOMAS, JOHN LELAND	Drexel Hill, Pa.
A.B., Villanova University	
TOPKIS, JEFFREY LARRY	Philadelphia
A.B., La Salle College	
TOWARD, TIMOTHY ROBERT	Tower City, Pa.
A.B., The Pennsylvania State University	
TRZESNIEWSKI, JOHN GEOGRE	Nanticoke, Pa.
B.S. in Pharm., Temple University School of Pharmacy	
UPANAVAGE, GENE JOSEPH	Gilberton, Pa.
B.S., in Pharm., Philadelphia College of Pharmacy and Science	
VILUSHIS, GEORGE JAMES	Hazleton, Pa.
A.B., Lycoming College	
VITALE, JOSEPH ANTHONY	Philadelphia
B.S., Saint Joseph's College	
WATERS, PATRICK TIMOTHY	Philadelphia
B.S., Villanova University	
WEISBERG, WILLIAM	Philadelphia
A.B., Temple University	
WEISS, DAVID	Cheltenham, Pa.
Temple University; University of Louisville	
XANTHOPOULOS, EDWARD THOMAS	Wilkes-Barre, Pa.
B.S., Cheyney State College	
ZITTLE, MICHAEL ALLEN	York, Pa.
B.S., in Pharm., Philadelphia College of Pharmacy and Science	

CLASS OF 1974

ABARBANEL, JACK ANDREW.....	Philadelphia
A.B., The Pennsylvania State University	
ACKERMAN, MARK IRVING.....	Philadelphia
A.B., Temple University	
ANDRESS, PHILIP MORTON, JR.....	Philadelphia
B.S., Dickinson College	
ANDREWS, CHARLES T.....	St. Clair, Pa.
A.B., Temple University	
Antolick, Larry Albert.....	Reading, Pa.
B.S., The Pennsylvania State University	
BAKER, THOMAS EDWIN.....	Byhalia, Ohio
B.S., Ohio State University	
BARONE, DONALD ANTHONY.....	Hillsdale, N.J.
A.B., Rutgers—The State University	
BATTALINO, BARBARA ANN BERTHA.....	North Bergen, N.J.
B.S., College of Mount Saint Vincent	
BATTALINO, JOHN JOSEPH.....	North Bergen, N.J.
A.B., PMC Colleges	
BEIL, LUTHER EDWARD.....	Danielsville, Pa.
B.S. in Pharm., Temple University School of Pharmacy	
BELL, JOSEPH WILLIAM, JR.....	Fayette City, Pa.
B.S., Allegheny College	
BENEDETTO, ANTHONY VINCENT.....	Philadelphia
B.S., Saint Joseph's College	
BENJAMIN, CHARLES DAVID.....	Philadelphia
B.S., Philadelphia College of Pharmacy and Science	
BENN, HARVEY STEVEN.....	Cherry Hill, N.J.
A.B., Rutgers—The State University	
BERGER, NEIL JON.....	Merrick, N.Y.
A.B., State University of New York	
BOLNO, CHARLES MARTIN.....	Philadelphia
A.B., Temple University	
BONEKAT, HORACE WILLIAM.....	Broomall, Pa.
B.S., Clemson University	
BRIDE, THOMAS PATRICK.....	Cranford, N.J.
A.B., Franklin and Marshall College	
BRISLIN, THOMAS VINCENT.....	Wilkes-Barre, Pa.
A.B., University of Pennsylvania	
BROOKS, FRANK JAMES.....	Clarion, Pa.
Clarion State College	

BROWN, AVROM STUART.....	Philadelphia
A.B., Temple University	
BROWN, WILLIAM P.....	Troy, Pa.
B.S., University of Rochester	
BRUBAKER, DANIEL B.....	Ephrata, Pa.
B.S., Elizabethtown College	
BRUCE, DAVID EDWARD.....	Drexel Hill, Pa.
A.B., Franklin and Marshall College	
BRULEY, HARRY JOHN.....	McAdoo, Pa.
A.B., Wilkes College	
BUCHWALD, WAYNE ROBERT.....	Hawthorne, N.Y.
B.S., University of Pittsburgh	
BYRNE, JAMES J.....	Philadelphia
A.B., Rutgers—The State University	
CAKOUROS, DENNIS WILLIAM.....	Johnstown, Pa.
B.S., University of Pittsburgh	
CANTOR, AVRIM	Philadelphia
A.B., C. W. Post College	
CARR, VINCENT FRANCIS.....	Philadelphia
A.B., La Salle College	
CARROLL, WILLIAM EDWARD	Saratoga Springs, N. Y.
B.S., Indiana Institute of Technology	
CATTOLICO, LEON MICHAEL.....	Philadelphia
B.S. in Pharm., Temple University School of Pharmacy	
CHATYRKA, GEORGE OREST.....	Collingswood, N.J.
A.B., Rutgers—The State University	
CLYMER, DAVID H.....	Lancaster ,Pa.
B.S., Millersville State College	
COHEN, IRVING MATTHEW.....	Philadelphia
A.B., Temple University	
COHEN, JERRY ALAN.....	Broomall, Pa.
A.B., Temple University	
COHEN, LARRY WAND.....	Philadelphia
B.S., The Pennsylvania State University	
CONNEEN, DENNIS MICHAEL.....	Springfield, Pa.
B.S., Villanova University	
COOLEY, DAVID L.....	New Castle, Pa.
B.S., Youngstown State University	
COWEN, STEPHEN PAUL.....	Philadelphia
B.S., Saint Joseph's College	
COX, FRED ARTHUR.....	Scranton, Pa.
A.B., Franklin and Marshall College	

DAIBER, WILLIAM KARL.....	Rydal, Pa.
B.S., Trinity College	
D'ANGELO, MICHAEL JAMES.....	Lebanon, Pa.
B.S., University of Pittsburgh	
DAROWISH, CHARLES EDWARD.....	Hazleton, Pa.
B.S., Saint Joseph's College	
DEAN, NORMAN ARLON.....	Silver Spring, Md.
B.S., United States Naval Academy	
DENGROVE, ROBERT STEVEN.....	Asbury Park, N.J.
A.B., Rutgers—The State University	
DENMAN, JOHN WESTEN.....	Pennsville, N.J.
A.B., Drew University	
DEPOLO, ALBERT A., JR.....	Morrisville, Pa.
B.S., The Pennsylvania State University	
DiTOMMASO, HENRY R.....	Philadelphia
B.S., Temple University School of Pharmacy	
DORTORT, ARTHUR J.....	Philadelphia
A.B., University of Pennsylvania	
DRAGANN, NICHOLAS JOSEPH.....	Penn Valley, Pa.
B.S., Saint Joseph's College	
DRAKE, ANDREW FRANCIS.....	Norwood, Pa.
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
DUBROFF, MICHAEL NEIL.....	Philadelphia
La Salle College	
EDELSTEIN, MITCHELL ELLIOT.....	Philadelphia
A.B., Temple University	
FARRELL, JOHN THOMAS, III.....	Glendora, N.J.
B.S., Philadelphia College of Pharmacy and Science	
FEINSTEIN, MICHAEL JON.....	Merion Station, Pa.
B.S., Muhlenberg College	
FELDMAN, BRUCE DAVID.....	Philadelphia
A.B., Temple University	
FISHMAN, GERALD ALAN.....	Wynnewood, Pa.
A.B., La Salle College	
FLANAGAN, HARRY PATRICK, III.....	Philadelphia
B.S., Philadelphia College of Pharmacy and Science	
FONTAINE, DAVID JOSEPH.....	Portland, Me.
A.B., University of Maine	
GAMBONE, JOSEPH CHARLES.....	Glenside, Pa.
A.B., La Salle College	
GERRIE, MARSHALL JAMES, JR.....	Fairfield, Me.
B.S., Northeast Missouri State College	

GOLD, JOSEPH FRANK	Philadelphia
A.B., Temple University	
GORDON, RALPH	Wildwood, N.J.
B.S., PMC Colleges	
GRATCH, JACK O.	Philadelphia
B.S., Philadelphia College of Pharmacy and Science	
HABUSTA, STEVEN FRANK	Parma, Ohio
B.S., John Carroll University	
HACKEL, MARTIN AARON	Philadelphia
B.S., The Pennsylvania State University	
HARNDEN, JAMES MICHAEL.....	Solon, Ohio
B.S., Marietta College	
HARRIS, ROBERT ALAN	Hollywood, Fla.
B.S., Boston University	
HOFFMAN, CARL AUGUSTUS, JR.	Harrisburg, Pa.
A.B., Thiel College	
HOOPER, FRED B.	New Cumberland, Pa.
A.B., Lafayette College; V.M.D., University of Pennsylvania School of Veterinary Medicine	
HUBACH, EDWARD ANTHONY.....	Maple Heights, Ohio
A.B., Case Western Reserve University	
JANIAK, DANIEL DAVID.....	Pittsburgh, Pa.
B.S. in Pharm., Duquesne University School of Pharmacy	
JENSEN, RAYMOND JAMES.....	Lindenhurst, N.Y.
B.S., State University of New York at Stony Brook	
JOHNSON, JOHN THOMAS.....	Davenport, Iowa
B.S., Parsons College	
JOHNSON, RICHARD ARTHUR.....	McKeesport, Pa.
A.B., Thiel College	
KANEDA, ROBERT RIOJI.....	Media, Pa.
B.S., Lebanon Valley College	
KASTENBERG, CHARLES ARTHUR.....	Cherry Hill, N.J.
B.S. in Pharm., Rutgers—The State University College of Pharmacy	
KATZ, STEVEN.....	Wyncote, Pa.
A.B., Temple University	
KENDRICK, C. ROGER.....	East Greenbush, N.Y.
B.S., Siena College; M.A., St. Rose College	
KITSKO, DENNIS	Johnstown, Pa.
B.S., University of Pittsburgh	
KOUKOS, DEAN THEODORE.....	Upper Darby, Pa.
B.S., Saint Joseph's College	

KRATHEN, STEPHEN A.	Philadelphia
B.S., Philadelphia College of Pharmacy and Science	
KREMER, ARNOLD SAUL	Bala-Cynwyd, Pa.
B.S., Albright College	
LA CAVERA, RICHARD ALLEN	Elmer, N.J.
Temple University	
LAVIS, JAMES DOUGLAS	Ocean City, N.J.
B.S., University of Notre Dame	
LEVIN, FRANCIS L.	Turnersville, N.J.
A.B., La Salle College	
LISTOPAD, AARON JOHN	Sharon, Pa.
A.B., Thiel College	
MCCLINTIC, WILLIAM RIDGE	Pittsburgh, Pa.
A.B., Lehigh University	
MCCRAY, MORRIS ELLINGTON	Riviera Beach, Fla.
B.S., Florida Atlantic University	
MC LAUGHLIN, JAMES AWBER	Shaker Heights, Ohio
A.B., Baldwin-Wallace College; M.S., Syracuse University	
MARKS, MICHAEL JOSEPH	Coraopolis, Pa.
B.S. (Pharm.), M.S. (Pharm. and Tox.), Duquesne University	
MESHEKOW, ALAN LEWIS	Asbury Park, N.J.
A.B., University of Rhode Island	
METZMAN, ROBERT MARTIN	Philadelphia
B.S.M.E., Drexel University	
MINGRONI, JULIUS ANTHONY	Philadelphia
B.S., Philadelphia College of Pharmacy and Science	
MINTZ, MARC ALLAN	Philadelphia
A.B., The Pennsylvania State University	
MONTAGUE, BARRY MYRON	Philadelphia
B.S., The Pennsylvania State University	
MOORE, MICHAEL WESLEY	Lawrenceville, N.J.
A.B., University of Connecticut	
MORRIS, KENNETH ALAN	Philadelphia
A.B., Temple University	
MORRONE, CHARLES CARL	Philadelphia
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
MORTE, PAUL DAVID	Marlboro, Mass.
A.B., Georgetown University	
MURRAY, FRANCIS XAVIER	Bellmawr, N.J.
A.B., La Salle College	
NAFTULIN, RICHARD JOHN	Philadelphia
A.B., Temple University	

NASSAU, HARVEY BENNETT.....	Belle Harbor, N.Y.
A.B., City College of New York	
OLSHAN, JERRY ALAN.....	Broomall, Pa.
A.B., Temple University	
OPALACK, CHERYL ANN.....	Pottstown, Pa.
A.B., Temple University	
PANKO, ANDREW J.....	Old Forge, Pa.
B.S., University of Scranton	
PAOLINO, RICHARD GERALD.....	Philadelphia
B.S. in Pharm., Temple University School of Pharmacy	
PAPA, RICHARD ANTHONY.....	New Castle, Pa.
B.S., University of Pittsburgh	
PETERSON, ROBERT JASON.....	Philadelphia
B.S., The Pennsylvania State University	
PLUMMER, RICHARD H.....	Wilmington, Del.
B.S., Penn Morton College	
READ, JOHN V.....	Wilmington, Del.
B.S., Georgetown University	
RENNY, THOMAS FRANCIS.....	Yonkers, N.Y.
A.B., Villanova University	
REYES, HERMAN.....	Houston, Texas
B.S. in Pharm., Univesity of Houston School of Pharmacy	
REYNOLDS, GERALD EDWARD.....	Port Allegany,, Pa.
B.S., Indiana University of Pennsylvania	
RISSMILLER, DAVID JAMES.....	Hatfield, Pa.
B.S., Muhlenberg College	
ROESHMAN, ROBERT MARK.....	Bryn Mawr, Pa.
A.B., The Pennsylvania State University	
RUPPERSBERGER, LESTER JAMES.....	Philadelphia
A.B., University of Pennsylvania	
RUSSIAN, GEORGE WALTON.....	Mount Ephraim, N.J.
B.S., Ursinus College	
SACKS, STEPHEN EDWARD.....	Abington, Pa.
B.S., Ursinus College	
SARAMA, EDWARD JOHN.....	Blackwood, N.J.
A.B., St. Francis College	
SCHULTZ, JOHN EDWARD, JR.....	Williamsport, Pa.
B.S., Juniata College	
SCOTT, RICHARD ALLEN.....	Cranston, R.I.
A.B., Brown University; M.A., Brown University	
SCULTHORPE, ROBERT HOWARD.....	Manasquan, N.J.
B.S., University of Nebraska	

SEIDMAN, MITCHELL STEVEN.....	Brooklyn, N.Y.
B.S., Pennsylvania College of Optometry	
SHELDON, HOWARD ALBERT.....	Audubon, N.J.
B.S., University of Pittsburgh	
SIMPSON, STANLEY L.....	Philadelphia
B.S., Temple University	
SINGER, MAURICE	Philadelphia
A.B., Temple University; M.A., Temple University	
SLOTOROFF, MICHAEL STEVEN.....	Pleasantville, N.J.
A.B., West Virginia University	
SOIFER, HARVEY ALAN.....	Philadelphia
A.B., Temple University	
SOMERSET, WILLIAM JOHN.....	Audubon, N.J.
A.B., Seton Hall University	
SPILLER, DENNIS MARK.....	Claymont, Del.
A.B., University of Delaware	
STARR, HARVEY TODD	Philadelphia
A.B., Temple University	
STRONG, FRANKLIN DAVID	Philadelphia
A.B., Temple University	
STYDUHAR, EDWARD ANTHONY, JR.....	Sharon, Pa.
B.S., Grove City College	
SUSSMAN, GARRY FRED.....	Philadelphia
A.B., Temple University	
TANITSKY, MICHAEL	Cynwyd, Pa.
A.B., The Pennsylvania State University	
TAXIN, EDWARD	Philadelphia
B.S., Muhlenberg College	
TENNENBAUM, MARC EDWARD.....	Philadelphia
A.B., Franklin College	
TETER, MARY JUDE.....	Jessup, Pa.
A.B., Temple University	
TRETTA, JOSEPH THOMAS.....	Drexel Hill, Pa.
B.S., Saint Joseph's College	
TRETTA, NICHOLAS DANIEL.....	Drexel Hill, Pa.
A.B., Villanova University	
TUCKER, RICHARD GEORGE.....	Cheltenham, Pa.
A.B., La Salle College	
TYTLER, NEIL BATES, JR.....	Pottstown, Pa.
B.S., Ursinus College	

UNDERWOOD, DONALD PAUL.....	Pennsauken, N.J.
A.B., Rutgers—The State University	
VECCIONE, EDWARD J.....	Newark, N.J.
A.B., Seton Hall University	
VERMEIRE, GEORGE DAVID.....	West Middlesex, Pa.
B.S., University of Pittsburgh	
WAGNER, GLENN NORMAN.....	Philadelphia
A.B., Temple University	
WEITBERG, JAY HERMAN.....	Cherry Hill, N.J.
B.S., PMC Colleges	
WINOKUR, KENNETH DREW.....	Philadelphia
B.S., Oglethorpe College	
WRIGHT, GARY GLEN.....	Eagle Lake, Texas
B.S. in Pharm., University of Houston School of Pharmacy	
ZASLOW, DENNIS BARRY.....	Havertown, Pa.
B.S., Albright College	
ZIEV, MICHAEL A.....	Philadelphia
A.B., Temple University	

CLASS OF 1975

AGIA, GARY ANTHONY.....	Wayne, N.J.
A.B., Seton Hall University	
AJJAN, GEORGE MICHAEL.....	North Haledon, N.J.
B.S., Saint Peter's College	
ALWINE, LAWRENCE KENNETH.....	Bryn Mawr, Pa.
A.B., University of Pittsburgh	
ANDRUCZYK, EUGENE	Philadelphia
B.S. in Pharm., Temple University School of Pharmacy	
ANGELONI, JOHN DOMINIC.....	Philadelphia
A.B., Temple University	
AUSMAN, PATRICIA JANE.....	Havertown, Pa.
A.B., Rosemont College	
BANKS, FRANK MILTON.....	Thorofare, N.J.
A.B., Rider College	
BARFIELD, LAWRENCE F.....	Pittsburgh, Pa.
B.S., University of Pittsburgh	
BAYLES, BRUCE CALLAHAN.....	Barrington, N.J.
A.B., Indiana University	
BERKOWITZ, STEVEN HARRIS.....	Philadelphia
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
BIRLEW, NICHOLAS R.....	Philadelphia
A.B., Western Kentucky University	
BISBING, SCOTT ROBERT.....	Emmaus, Pa.
A.B., Colgate University	
BLAIS, FRANCIS X.....	Medford, Mass.
A.B., Northeastern University	
BLUMBERG, STEVEN BRUCE.....	Havertown, Pa.
A.B., University of Louisville	
BORGERSEN, HARRY J.....	Philadelphia
B.S., Temple University	
BRENNAN, WILLIAM FREDERICK.....	Wyncote, Pa.
B.S., Lowell Technological Institute	
BROOKER, ALAN SCOTT.....	Philadelphia
B.S., Temple University	
BRYANT, HARVEY, JR.....	Philadelphia
B.S., Savannah State College	
BURT, STEPHEN MARCIL.....	Montreal, Quebec, Canada
B.S., McGill University	
CARLETON, LINN HAZE.....	Tampa, Fla.
University of Tampa	

CARR, MARGARET MARY.....	Souderton, Pa.
B.S., Chestnut Hill College	
CARUNO, JOHN WAYNE.....	Philadelphia
B.S., Philadelphia College of Pharmacy and Science	
CENTRELLA, MICHAEL.....	Drexel Hill, Pa.
B.S., Villanova University	
CHASE, BARRY MARK.....	Philadelphia
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
CHERPAK, SUSAN ELLEN.....	St. Petersburg, Fla.
B.S., University of Bridgeport	
COLEMAN, ROBERT EMMETT.....	Long Beach, Calif.
A.B., University of Southern California	
COOK, TIMOTHY GARMAN.....	Mechanicsburg, Pa.
B.S., Dickinson College	
DAVIS, GARY ALAN.....	Cherry Hill, N.J.
A.B., Rutgers—The State University	
DEPALMA, JOHN JAMES	Roselle Park, N.J.
B.S., Seton Hall University	
DiBACCO, LOUIS FRANCIS.....	Philadelphia
A.B., LaSalle College	
DUNKELBERGER, GEORGE ROY.....	Ephrata, Pa.
A.B., Elizabethtown College	
Dwyer, JAMES PAUL.....	Flourtown, Pa.
A.B., LaSalle College	
ECKELS, DENNIS L.....	Hunker, Pa.
A.B., California State College	
EELLS, LOUIS DENNIS	Fort Lauderdale, Fla.
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
EQUI, BRUCE CLIFFORD	Hatboro, Pa.
B.S., The Pennsylvania State University	
ESPENSHADE, LARRY MELVIN.....	Highspire, Pa.
A.B., Gettysburg College	
ESSL, STANLEY EDWARD.....	Philadelphia
B.S. in Pharm., Philadelphia College of Pharmacy and Science	
FEINGOLD, BARRY	Philadelphia
B.S. in Pharm., Temple University School of Pharmacy	
FIONTE, ROBERT RAYMOND.....	Providence, R.I.
B.S. in Pharm., New England College of Pharmacy	
FLYNN, JOSEPH DANIEL, JR.....	Villanova, Pa.
B.S., Villanova University	
FORSTER, CARL JOHN.....	Pottsville, Pa.
B.S. in Pharm., Philadelphia College of Pharmacy and Science	

GETSON, PHILIP	Philadelphia
B.S., Saint Joseph's College	
GIAMMANCO, PETER PAUL.....	Philadelphia
A.B., Temple University	
GLASS, HOWARD LEONARD.....	Philadelphia
A.B., Temple University	
GOLDSTEIN, MARC	Woodmere, N.Y.
A.B., Rider College	
GOODMAN, RONALD MARC.....	Margate, N.J.
A.B., George Washington University	
GORDON, ROBERT.....	Wildwood, N.J.
B.S., Rutgers—The State University	
GRAHAM, E. JOAN.....	Saxonburg, Pa.
University of Pittsburgh School of Pharmacy	
GRAITZER, HOWARD M.	Philadelphia
B.S., The Pennsylvania State University	
GRAYCE, PAUL A.....	Philadelphia
A.B., Temple University	
GREEN, SCOTT ALAN.....	Philadelphia
A.B., University of Rochester	
GREENE, THOMAS EARLE.....	Yardley, Pa.
A.B., Hamilton College	
GREENSTONE, SIDNEY THOMAS.....	Atlanta, Ga.
B.S. in Pharm., The University of Georgia School of Pharmacy	
GROSS, G. S. PETER.....	Wyncote, Pa.
A.B., Temple University	
GUEHL, JOHN JAMES.....	Pittsburgh, Pa.
B.S., University of Pittsburgh	
GURKOFF, JERRY FREDERIC.....	Harrisburg, Pa.
A.B., Kenyon College	
HALCOVAGE, JONATHAN PETER.....	Perkasie, Pa.
Delaware Valley College	
HENNESSEY, BARRY JOHN.....	Boston, Mass.
B.S., Stonehill College	
HEY, WAYNE ALBERT.....	Drexel Hill, Pa.
A.B., Temple University	
HOAG, CHARLES SCOTT.....	Chappaqua, N.Y.
B.S., Pace College	
HACHREITER, GEORGE CARL.....	Elizabethtown, Pa.
B.S., King's College	
HOFFMAN, JAMES EDWARD.....	York, Pa.
B.S., Elizabethtown College	

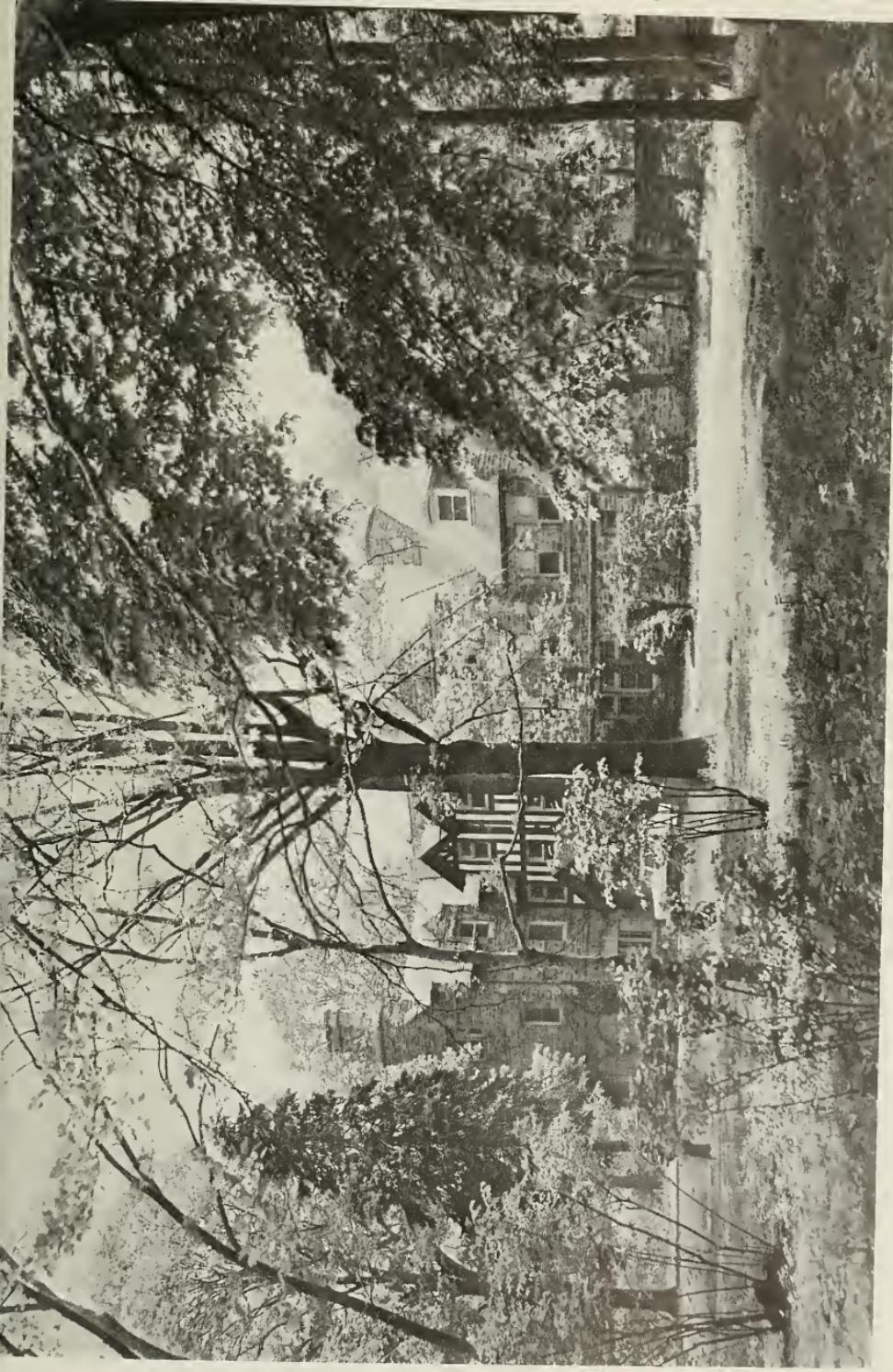
HOLLIN, JOHN EVERETT.....	Uniontown, Ohio
B.S., University of Akron	
HONDERICK, RICHARD THORPE.....	Miami, Fla.
B.S., Evangel College	
HYNICK, JAMES JOHN.....	Hazleton, Pa.
B.S., The Pennsylvania State University	
M.Ed., The Pennsylvania State University	
JACKERSON, JEFFREY I.....	Middletown, R.I.
A.B., Case Western Reserve University	
KANOFF, RICHARD BRUCE.....	Yeadon, Pa.
A.B., University of Pennsylvania	
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